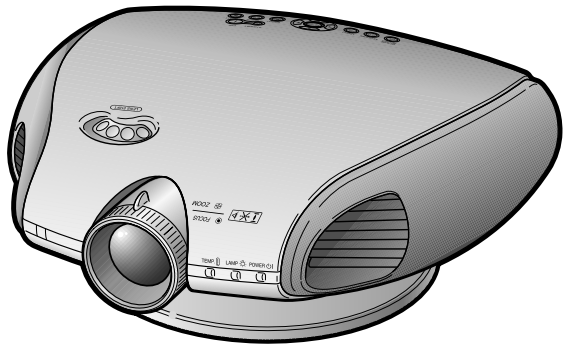
SHARP

SERVICE MANUAL
SERVICE-ANLEITUNG

S14N4XV-Z200U



PROJECTOR
PROJEKTOR

MODELS
MODELLE

XV-Z200U/E
XV-Z201E
DT-300

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

Im Interesse der Benutzersicherheit (erforderliche Sicherheitsregeln in einigen Ländern) muß das Gerät in seinen Originalzustand gebracht werden. Außerdem dürfen für die spezifizierten Bauteile nur identische Teile verwendet werden.

SHARP CORPORATION

CONTENTS

INHALT

SPECIFICATIONS

Product type	Projector
Models	XV-Z200U/DT-300/XV-Z200E/XV-Z201E
Video system	PAL/PAL 60/PAL-M/PAL-N/SECAM/NTSC 3.58/NTSC 4.43 DTV 480I/480P/720P/1080I/576I/576P
Display method	DLP chip, RGB optical shutter method
DLP panel	Panel size: 0.6 Display method: Single Panel Digital Micromirror Device (DMD™) by Texas Instruments Drive method: Digital Light Processing (DLP™) No. of dots: 589,824 dots (1,024 [H] 576 [V])
Lens	1–1.2 zoom lens, F1.75–2.04 f=28.0–33.5 mm (XV-Z200U/E), F2.0–2.4 f=16.9–20.2 (XV-Z201E, DT–300)
Projection lamp	210 W/168 W SHP lamp
Video input signal	RCA Connector: VIDEO (INPUT 4), composite video, 1.0 Vp-p, sync negative, 75 Ω terminated
S-video input signal	4-pin Mini DIN connector (INPUT 3) Y (luminance signal): 1.0 Vp-p, sync negative, 75 Ω terminated C (chrominance signal): Burst 0.286 Vp-p, 75 Ω terminated
Component input signal (INPUT 1)	RCA Connector Y: 1.0 Vp-p, sync negative, 75 Ω terminated P_B: 0.7 Vp-p, 75 Ω terminated P_R: 0.7 Vp-p, 75 Ω terminated
Component input signal (INPUT 2)	29-pin connector DVI input signal: Digital 250–1,000 mV 50 Ω Analog 0.7 Vp-p 75 Ω Y: 1.0 Vp-p, sync negative, 75 Ω terminated P_B: 0.7 Vp-p, 75 Ω terminated P_R: 0.7 Vp-p, 75 Ω terminated
Horizontal resolution	520 TV lines (NTSC 3.58 input)
RGB input signal	DVI-I terminal <Digital> Input impedance 50 Ω Input level 250-1000 mV <Analog> Input impedance 75 Ω Input level 0.7 Vp-p <Synchronization signal> • Separate sync/Composite sync Input level TTL level Input impedance 1 KΩ • Green on sync Input level (Synchronizing input) 0.286 Vp-p Input impedance 75 Ω
Pixel clock	12–80 MHz
Vertical frequency	43–75 Hz
Horizontal frequency	15–70 kHz
Computer control signal	9-pin D-sub connector (RS-232C Port)
Rated voltage	AC 100–240 V
Input current	3.2 A
Rated frequency	50/60 Hz
Power consumption	285 W
Heat dissipation	1,070 BTU/hour
Operating temperature	41°F to 95°F (5°C to 35°C)
Storage temperature	4°F to 140°F (20°C to 60°C)
Cabinet	Plastic
I/R carrier frequency	38 kHz
Dimensions (approx.)	14½ (W) × 6$^{9}/_{16}$ (H) × 12⅞ (D) (368 × 153.8 × 327 mm) (including swivel stand) 14½ (W) × 4⅝ (H) × 12⅞ (D) (368 × 118 × 327 mm) (main body only)
Weight (approx.)	10.1 lbs. (4.6 kg) (including swivel stand) 9.0 lbs. (4.1 kg) (main body only)
Supplied accessories	Remote control, Two AA size batteries, Power cord, Terminal cover, Lens cap (attached on the body), Operation manual, Screws for terminal cover, 21-pin RCA conversion adaptor, Video cable
Replacement parts	Lamp unit (Lamp/cage module) (BQC-XVZ200++1), Remote control (RRMCGA218WJSA), AA size batteries, Power cord (QACCDA007WJPZ:SEC/SECL, QACCV4002CEZZ: SEEG/SEI, QACCBA012WJPZ:SUK/SRS/SRH/SEEM, QACCLA018WJPZ:SCA/SNZ), Terminal cover (GCOVAA116WJKB), Lens cap (CCAPHA004WJ01), Operation manual (SEC/SECL:TiNS-B005WJZZ (XV-Z200U/E)/TiNS-B006WJZZ (XV-Z201E, DT–300), SEEG/SUK:TiNS-B007WJZZ (XV-Z200U/E)/TiNS-B009WJZZ (XV-Z201E, DT–300), SCA/SNZ/SRS/SRH/SEEM/SEI:TiNS-B008WJZZ (XV-Z200U/E)/TiNS-B010WJZZ (XV-Z201E, DT–300)), Screws for terminal cover (XBBSN40P10000), 21-pin RCA converter adaptor (QSOZ0361CEZZ:SEEG/SUK), Video cable (QCNWGA001WJZZ))

This SHARP projector uses a DMD chip. This very sophisticated chip contains 589,824 pixels. As with any high technology electronic equipment such as large screen TVs, video systems and video cameras, there are certain acceptable tolerances that the equipment must conform to.

This unit has some inactive pixels within acceptable tolerances which may result in inactive dots on the picture screen. This will not affect the picture quality or the life expectancy of the unit. If you have any questions about this matter, please call toll free 1-877-DTV-SHARP (1-877-388-7427). U.S.A. ONLY

Specifications are subject to change without notice.

IMPORTANT SERVICE SAFETY NOTES

■ **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and servicing guidelines as follows:**

WARNING

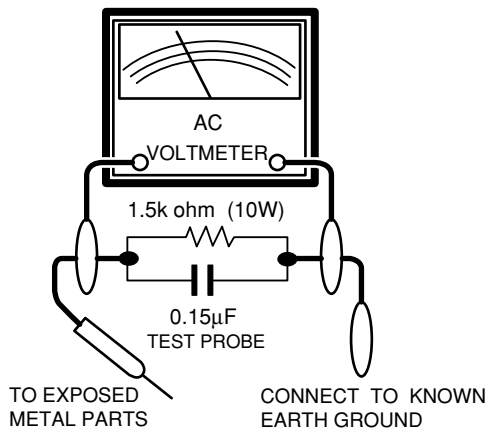
1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

BEFORE RETURNING THE PROJECTOR: (Fire & Shock Hazard)

Before returning the projector to the user, perform the following safety checks:

1. Inspect lead wires are not pinched between the chassis and other metal parts of the projector.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for current leakage in the following manner:

- Plug the AC cord directly into a 120-volt AC outlet, (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in parallel between all exposed metal cabinet parts and earth ground.
- Use an AC voltmeter with sensitivity of 5000 ohm per volt., or higher, sensitivity to measure the AC voltage drop across the resistor (See Diagram).
- All checks must be repeated with the AC plug connection reversed. (If necessary, a non-polarized adapter plug must be used only for the purpose of completing these checks.)
  Any reading of 0.3 volts RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the unit to the owner.



SAFETY NOTICE

Many electrical and mechanical parts in Projector have special safety-related characteristics.
These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.
Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the Replacement Parts Lists and Schematic Diagrams. For continued protection, replacement parts must be identical to those used in the original circuit. The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

WARNING: The bimetallic component has the primary conductive side exposed. Be very careful in handling this component when the power is on.

AVIS POUR LA SECURITE

De nombreuses pièces, électriques et mécaniques, dans les projecteur à présentent des caractéristiques spéciales relatives à la sécurité, qui ne sont souvent pas évidentes à vue.
Le degré de protection ne peut pas être nécessairement augmentée en utilisant des pièces de remplacement étalonnées pour haute tension, puissance, etc.
Les pièces de remplacement qui présentent ces caractéristiques sont identifiées dans ce manuel; les pièces électriques qui présentent ces particularités sont identifiées par la marque "⚠" et hachurées dans la liste des pièces de remplacement et les diagrammes schématiques. Pour assurer la protection, ces pièces doivent être identiques à celles utilisées dans le circuit d'origine. L'utilisation de pièces qui n'ont pas les mêmes caractéristiques que les pièces recommandées par l'usine, indiquées dans ce manuel, peut provoquer des électrocutions, incendies ou autres accidents.

AVERTISSEMENT: La composante bimétallique dispose du conducteur primaire dénudé. Faire attention lors de la manipulation de cette composante sous tension.

NOTE TO SERVICE PERSONNEL

UV-RADIATION PRECAUTION

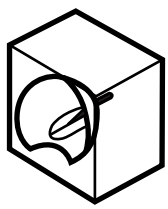
The light source, metal halide lamp, in the projector emits small amounts of UV-Radiation.

AVOID DIRECT EYE AND SKIN EXPOSURE.

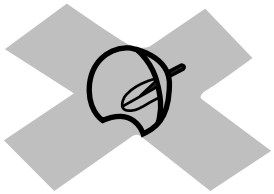
To ensure safety please adhere to the following:

1. Be sure to wear sun-glasses when servicing the projector with the lamp turned “on” and the top enclosure removed.

2. Do not operate the lamp outside of the lamp housing.



3. Do not operate for more than 2 hours with the enclosure removed.



UV-Radiation and Medium Pressure Lamp Precautions

1. Be sure to disconnect the AC plug when replacing the lamp.
2. Allow one hour for the unit to cool down before servicing.
3. Replace only with same type lamp. Type BQC-XVZ200++1 rated 370V/210W.
4. The lamp emits small amounts of UV-Radiation, avoid direct-eye contact.
5. The medium pressure lamp involves a risk of explosion. Be sure to follow installation instructions described below and handle the lamp with care.

NOTE POUR LE PERSONNEL D’ENTRETIEN

PRECAUTION POUR LES RADIATIONS UV

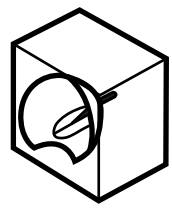
La source de lumière, la lampe métal halide, dans le projecteur émet de petites quantités de radiation UV.

EVITEZ TOUTE EXPOSITION DIRECTE DES YEUX ET DE LA PEAU.

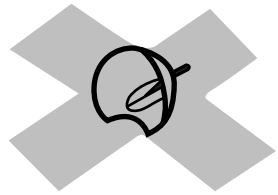
Pour votre sécurité, nous vous prions de respecter les points suivants:

1. Toujours porter des lunettes de soleil lors d’un entretien du projecteur avec la lampe allumée et le haut du coffret retiré.

2. Ne pas faire fonctionner la lampe à l’extérieur du boîtier de lampe.



3. Ne pas faire fonctionner plus de 2 heures avec le coffret retiré.



Précautions pour les radiations UV et la lampe moyenne pression

1. Toujours débrancher la fiche AC lors du remplacement de la lampe.
2. Laisser l’unité refroidir pendant une heure avant de procéder à l’entretien.
3. Ne remplacer qu’avec une lampe du même type. Type BQC-XVZ200++1 caractéristique 370V/210W.
4. La lampe émet de petites quantités de radiation UV-éviter tout contact direct avec les yeux.
5. La lampe moyenne pression implique un risque d’explosion. Toujours suivre les instructions d’installation décrites ci-dessous et manipuler la lampe avec soin.

UV-RADIATION PRECAUTION (Continued)

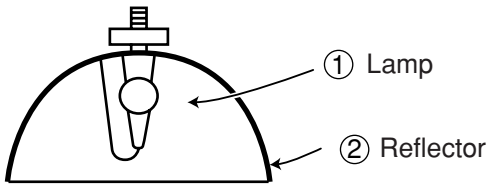
■ Lamp Replacement

Note:

Since the lamp reaches a very high temperature during units operation replacement of the lamp should be done at least one hour after the power has been turned off. (to allow the lamp to cool off.)

Installing the new lamp, make sure not to touch the lamp (bulb) replace the lamp by holding its reflector ②.

[Use original replacement only.]



DANGER ! — Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages at its start.

Since small amounts of UV-Radiation are emitted from an opening between the duct cover and the lamp housing, it is recommended to place the LENS CAP on the opening during servicing to avoid eye and skin exposure.

Note: Please obtain a lens cap before servicing a models XV-Z200U/DT-300/XV-Z200E/XV-Z201E that is received without one.

PRECAUTION POUR LES RADIATIONS UV (Suite)

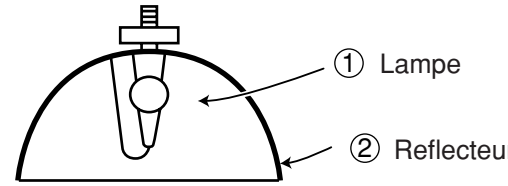
■Remplacement de la lampe

Remarque:

Comme la lampe devient très chaude pendant le fonctionnement de l'unité, son remplacement ne doit être effectué au moins une heure après avoir coupé l'alimentation (pour permettre à la lampe de refroidir).

En installant la nouvelle lampe, s'assurer de ne pas toucher la lampe (ampoule). Remplacer la lampe en tenant son réflecteur ②.

[N'utiliser qu'un remplacement d'origine.]



DANGER ! — Ne jamais mettre sous tension sans la lampe pour éviter un choc électrique ou des dommages des appareils car le stabilisateur génère de hautes tensions à sa mise en route.

Comme de petites quantités de radiation UV sont émises par une ouverture entre le couvercle du conduit et le botier de la lampe,il est recommandé de placer le CAPUCHON D'OPTIQUE sur l'ouverture pendant l'entretien pour éviter une exposition des yeux et la peau.

Remarque: Priére de se procurer un capuchon d'optique acant d'entretien un modéle XV-Z200U/DT-300/XV-Z200E/XV-Z201E qui est livré sans.

WARNING: High brightness light source, do not stare into the beam of light, or view directly. Be especially careful that children do not stare directly in to the beam of light.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO MOISTURE OR WET LOCATIONS.

CAUTION

RISK OF ELECTRIC SHOCK.
DO NOT REMOVE SCREWS
EXCEPT SPECIFIED USER
SERVICE SCREW.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE CABINET.
NO USER-SERVICEABLE PARTS EXCEPT LAMP UNIT.
REFER SERVICING TO QUALIFIED SERVICE
PERSONNEL.

The lighting flash with arrowhead within a triangle is intended to tell the user that parts inside the product are risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the manual with the projector.

CAUTION
(POWER Unit)

8.0A 250V

For continued protection against a risk of fire, replace only with same type 8.0A, AC250V fuse. (F7001)

AVERTISSEMENT: Source lumineuse de grande intensité. Ne pas fixer le faisceau lumineux ou le regarder directement. Veiller particulièrement à éviter que les enfants ne fixent directement le faisceau lumineux.

AVERTISSEMENT: AFIN D'EVITER TOUT RISQUE D'INCENDIE OU D'ELECTROCUTION, NE PAS PLACER CET APPAREIL DANS UN ENDROIT HUMIDE OU MOUILLE.

ATTENTION

RISQUE
D'ÉLECTROCUTION. NE
PASR ETIRER LES VIS Á
L'EXCEPTION DE LA VIS DE
REPARATION UTILISATEUR
SPECIFIEES

ATTENTION: POUR EVITER TOUT RISQUE
D'ELECTROCUTION, NE PAS RETIRER LE CAPOT.
AUCUNE DES PIECES INTERIEURES N'EST REPARABLE
PAR L'UTILISATEUR, A L'EXCEPTION DE L'UNITE DE
LAMPE. POUR TOUTE REPARATION, S'ADRESSER A UN
TECHNICIEN D'ENTRETIEN QUALIFIE.

L'éclair terminé d'une flèche à l'intérieur d'un triangle indique à l'utilisateur que les pi'eces se trouvant dans l'appareil sont susceptibles de provoquer une décharge électrique.

Le point d'exclamation à l'intérieur d'un triangle indique à l'utilisateur que les instructions de fonctionnement et d'entretien sont détaillées dans les documents fournis avec le projecteur.

PRECAUTION
(Unité de PUTSSANCE)

8.0A 250V

Pour une protection continue contre un risques d'incendie, ne remplacer qu'avec un fusible 8.0A,AC250V du même type. (F7001)

Precautions for using lead-free solder

1 Employing lead-free solder

"MAIN, THERMINAL1/2, LED, KEY, FRONT-R/C RECEIVER, REAR-R/C RECEIVER, POWER, BALLAST PWBs" of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

Sn-Ag-Cu Indicates lead-free solder of tin, silver and copper.

2 Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldening bit, contact our service station or service ranch in your area.

3 Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettabillty, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be excoeded, remove the bit from the PWB as soon as you conurm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to tum on and off the power of the bit as required.

if a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

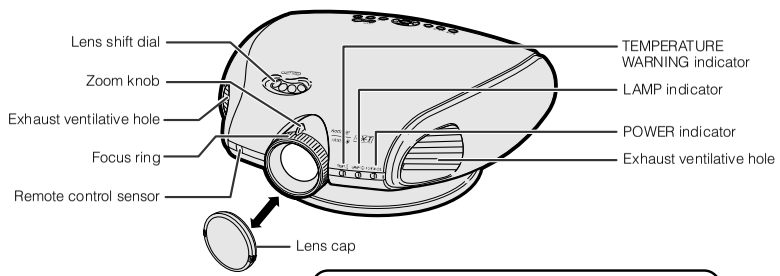
Becareful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Part No.	★	Description		Code
ZHNDAi123250E	J	ϕ0.3mm	250g(1roll)	BL
ZHNDAi126500E	J	ϕ0.6mm	500g(1roll)	BK
ZHNDAi12801KE	J	ϕ1.0mm	1kg(1roll)	BM

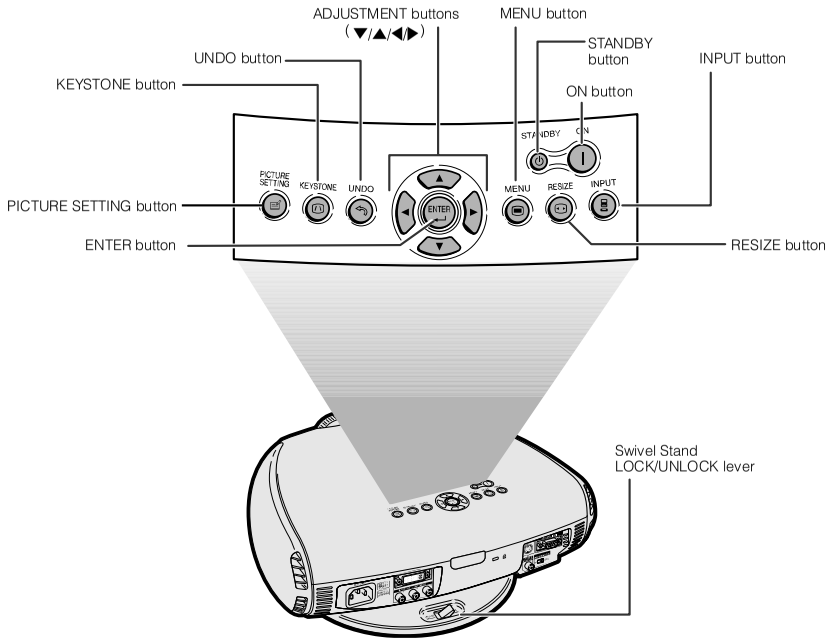
Part Names

Projector (Front and Top View)

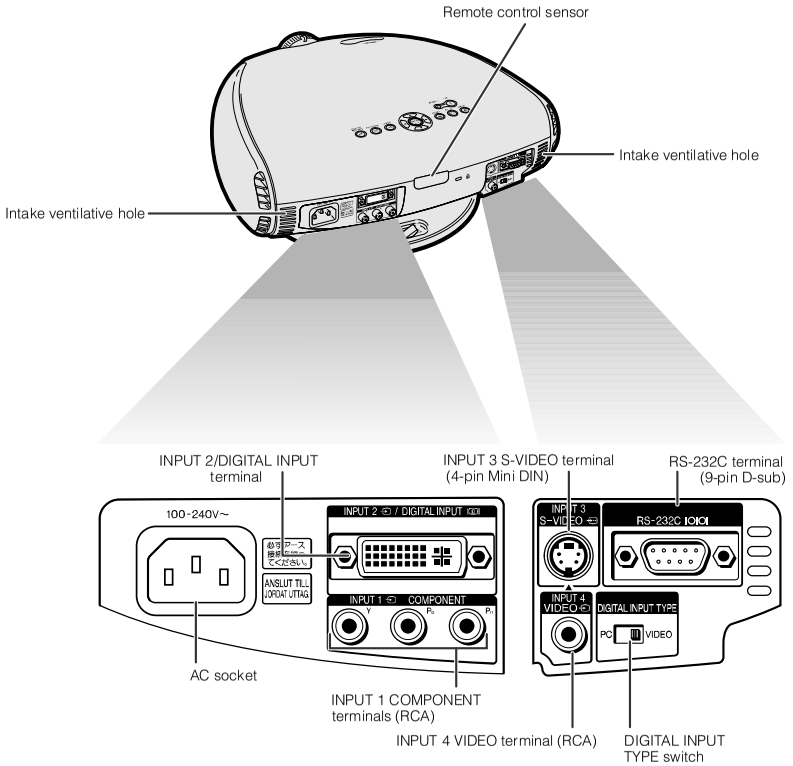


Attaching the Lens Cap
The lens cap can be attached to the projector using commercially available straps (for cellular phones etc.), as shown in the figure.

Projector (Side and Rear View)

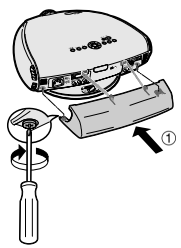


Projector (Rear View)



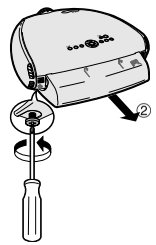
Using the Terminal Cover
When the projector is used on a desktop, high mounted or ceiling mounted, attach the terminal cover (supplied) to hide the connecting cables.

Attaching the Terminal Cover
① Align with the tabs on the projector and then press the terminal cover in the direction of the arrow.
② Tighten the two screws on the bottom of the projector.



② Tighten the screws

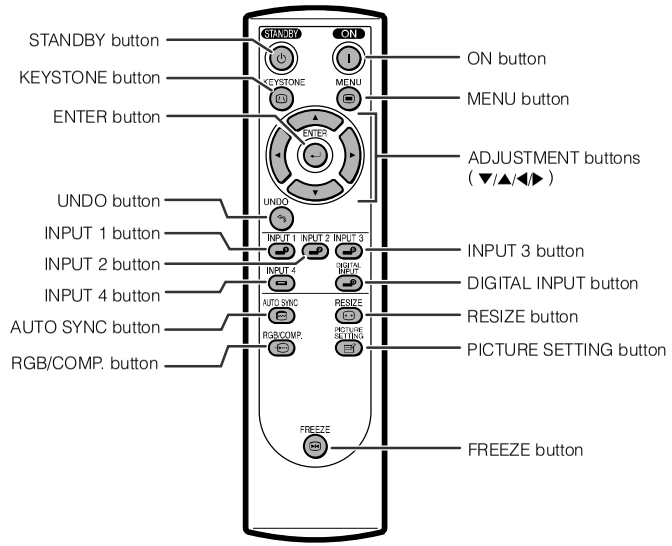
Removing the Terminal Cover
① Loosen the two screws on the bottom of the projector.
② Raise the terminal cover and pull it out in the direction of the arrow.



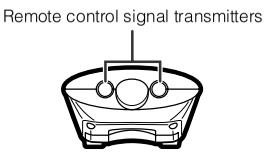
① Loosen the screws

Part Names

Remote Control (Front View)



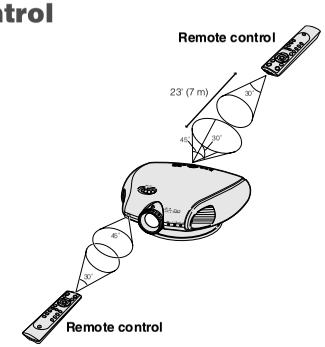
Remote Control (Top View)



Operating the Remote Control

Available Range of the Remote Control

■ **The remote control can be used to control the projector within the ranges shown in the illustration.**



Note

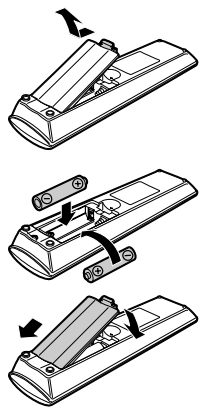
- The signal from the remote control can be reflected off a screen for easy operation. However, the effective distance of the signal may differ due to the screen material.

When using the remote control:

- Be sure not to drop, or expose to moisture or high temperature.
- The remote control may malfunction under a fluorescent lamp. Under that circumstance, move the projector away from the fluorescent lamp.

Inserting the Batteries

The batteries (two "AA" size) are included in the package.



1 Pull down the tab on the cover and remove the cover toward the direction of the arrow.

2 Insert the included batteries.

- Insert the batteries making sure the polarities correctly match the ⊕ and ⊖ marks inside the battery compartment.

3 Insert the lower tab of the cover into the opening, and lower the cover until it clicks in place.

Incorrect use of the batteries may cause them to leak or explode. Please follow the precautions below.

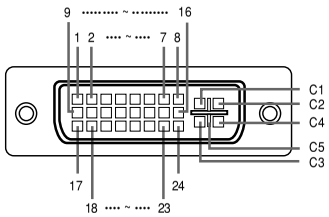
⚠ Caution

- Insert the batteries making sure the polarities correctly match the ⊕ and ⊖ marks inside the battery compartment.
- Batteries of different types have different properties, therefore do not mix batteries of different types.
- Do not mix new and old batteries.
  This may shorten the life of new batteries or may cause old batteries to leak.
- Remove the batteries from the remote control once they have run out, as leaving them can cause them to leak. Battery fluid from leaked batteries is harmful to your skin, therefore be sure to first wipe them and then remove them using a cloth.

- The batteries included with this projector may exhaust over a short period, depending on how they are kept. Be sure to replace them as soon as possible with new batteries when they have run out.
- Remove the batteries from the remote control if you will not be using the remote control for a long time.

Connecting Pin Assignments

DVI-I (INPUT 2 / DIGITAL INPUT) port : 29 pin connector



• DVI Digital INPUT

Pin No.	Signal	Pin No.	Signal
1	T.M.D.S data 2–	16	Hot plug detection
2	T.M.D.S data 2+	17	T.M.D.S data 0–
3	T.M.D.S data 2 shield	18	T.M.D.S data 0+
4	Not connected	19	T.M.D.S data 0 shield
5	Not connected	20	Not connected
6	DDC clock	21	Not connected
7	DDC data	22	T.M.D.S clock shield
8	Not connected	23	T.M.D.S clock+
9	T.M.D.S data 1–	24	T.M.D.S clock–
10	T.M.D.S data 1+	C1	Not connected
11	T.M.D.S data 1 shield	C2	Not connected
12	Not connected	C3	Not connected
13	Not connected	C4	Not connected
14	+5V power	C5	Ground
15	Ground		

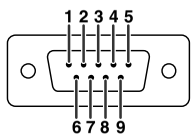
• DVI Analog RGB Input

Pin No.	Signal	Pin No.	Signal
1	Not connected	16	Hot plug detection
2	Not connected	17	Not connected
3	Not connected	18	Not connected
4	Not connected	19	Not connected
5	Not connected	20	Not connected
6	DDC clock	21	Not connected
7	DDC data	22	Not connected
8	Vertical sync	23	Not connected
9	Not connected	24	Not connected
10	Not connected	C1	Analog input Red
11	Not connected	C2	Analog input Green
12	Not connected	C3	Analog input Blue
13	Not connected	C4	Horizontal sync
14	+5V power	C5	Ground
15	Ground		

• DVI Analog Component Input

Pin No.	Signal	Pin No.	Signal
1	Not connected	16	Not connected
2	Not connected	17	Not connected
3	Not connected	18	Not connected
4	Not connected	19	Not connected
5	Not connected	20	Not connected
6	Not connected	21	Not connected
7	Not connected	22	Not connected
8	Not connected	23	Not connected
9	Not connected	24	Not connected
10	Not connected	C1	Analog input Pr/Cr
11	Not connected	C2	Analog input Y
12	Not connected	C3	Analog input Pb/Cb
13	Not connected	C4	Not connected
14	Not connected	C5	Ground
15	Ground		

RS-232C Port: 9-pin D-sub male connector



Pin No.	Signal	Name	I/O	Reference
1				Not connected
2	RD	Receive Data	Input	Connected to internal circuit
3	SD	Send Data	Output	Connected to internal circuit
4		Reserved		Connected to internal circuit
5	SG	Signal Ground		Connected to internal circuit
6		Reserved		Connected to internal circuit
7		Reserved		Connected to internal circuit
8		Reserved		Connected to internal circuit
9				Not connected

(RS-232C) Specifications and Command Settings

PC control

A computer can be used to control the projector by connecting an RS-232C cable (null modem, cross type, commercially available) to the projector.

Communication conditions

Set the serial port settings of the computer to match that of the table.
Signal format: Conforms to RS-232C standard.
Baud rate: 9,600 bps
Data length: 8 bits
Parity bit: None
Stop bit: 1 bit
Flow control: None

Basic format

Commands from the computer are sent in the following order: command, parameter, and return code. After the projector processes the command from the computer, it sends a response code to the computer.

Command format

C1	C2	C3	C4	P1	P2	P3	P4

Command 4-digit / Parameter 4-digit

Return code (0DH)

Response code format

Normal response

O	K

Return code (0DH)

Problem response (communication error or incorrect command)

E	R	R

Return code (0DH)

Info

- When more than one code is being sent, send each command only after the OK response code for the previous command from the projector is verified.

Note

- When using the computer control function of the projector, the projector's operating status cannot be read by the computer. Therefore, confirm the status by transmitting the display commands for each adjustment menu and checking the status with the on-screen display.

Commands

Example:

- When power on.

Computer → Projector

P	O	W	R	_	_	_	1	↵

→

O	K	↵

←

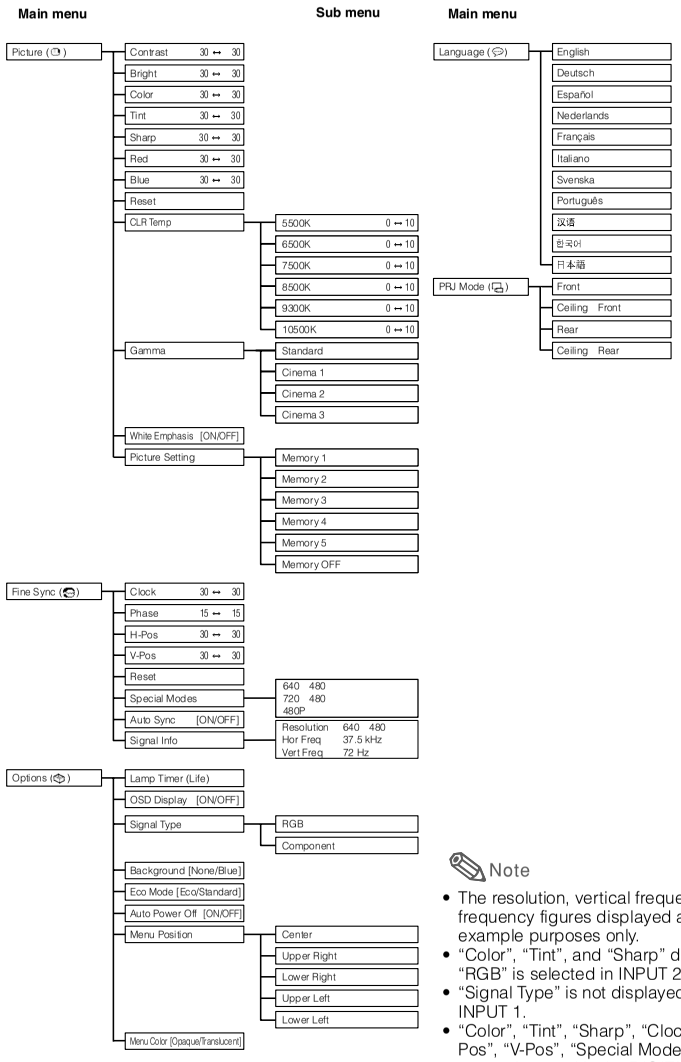
BUTTONS & REMOTE CONTROL BUTTONS	CONTROL CONTENTS	COMMAND	PARAMETER	RETURN
	POWER ON	P O W R	_ _ _ 1	OK OR ERR
	STANDBY	P O W R	_ _ _ 0	OK OR ERR
	INPUT 1 (COMPONENT 1)	I V E D	_ _ _ 1	OK OR ERR
	INPUT 2 (COMPONENT 2)	I V E D	_ _ _ 2	OK OR ERR
	INPUT 3 (S-VIDEO)	I V E D	_ _ _ 3	OK OR ERR
	INPUT 4 (VIDEO)	I V E D	_ _ _ 4	OK OR ERR
	DIGITAL INPUT MODE	I V E D	_ _ _ 5	OK OR ERR

Note

- If an underbar (_) appears in the parameter column, enter a space.

Menu Bar Items

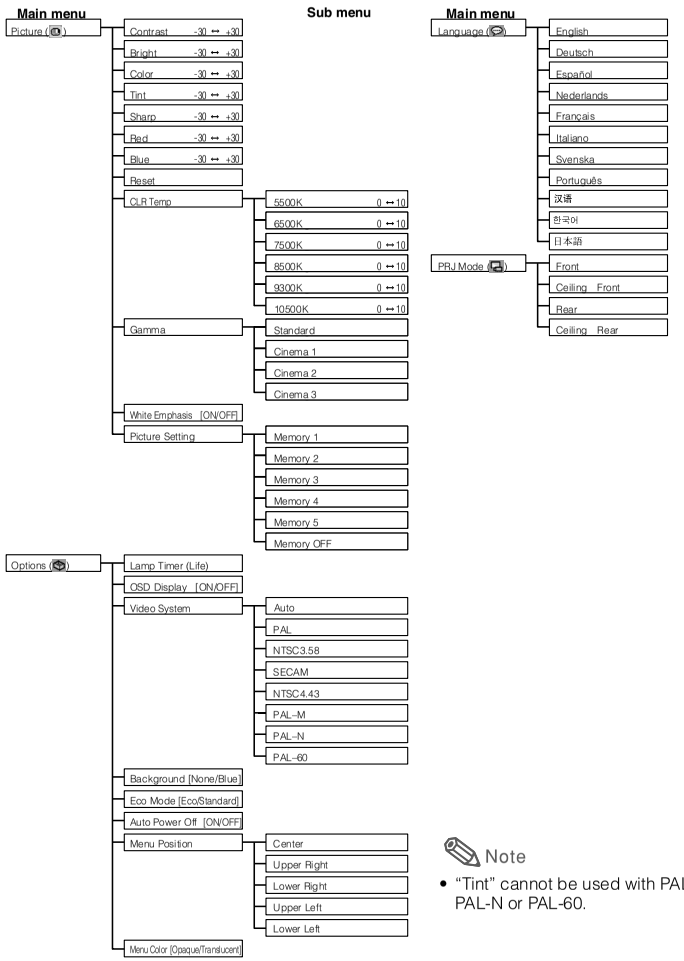
■ INPUT 1 / 2 / DIGITAL INPUT Mode



Note

- The resolution, vertical frequency and horizontal frequency figures displayed above are for example purposes only.
- “Color”, “Tint”, and “Sharp” do not appear when “RGB” is selected in INPUT 2 mode.
- “Signal Type” is not displayed when using INPUT 1.
- “Color”, “Tint”, “Sharp”, “Clock”, “Phase”, “H-Pos”, “V-Pos”, “Special Modes” and “Auto Sync” cannot be used in the DIGITAL INPUT mode.
- “Clock”, “Phase” and “Auto Sync” cannot be used in the Component mode.

■ INPUT 3 / 4 Mode



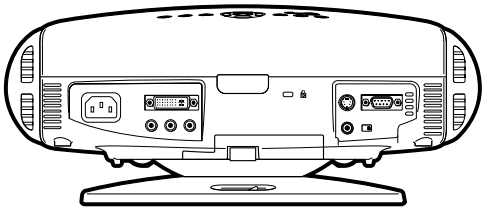
Note

- “Tint” cannot be used with PAL, SECAM, PAL-M, PAL-N or PAL-60.

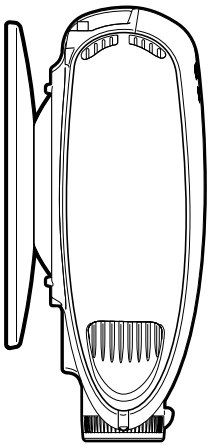
DIMENSIONS

Units: inches (mm)

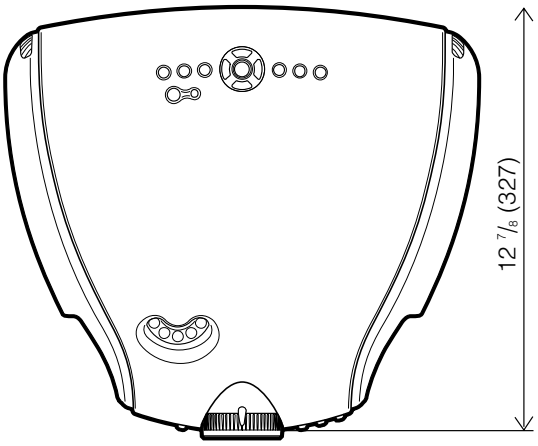
Rear View



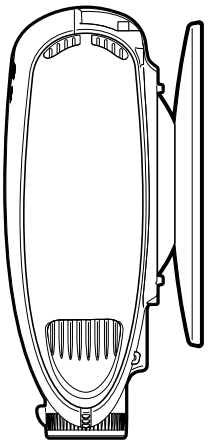
Side View



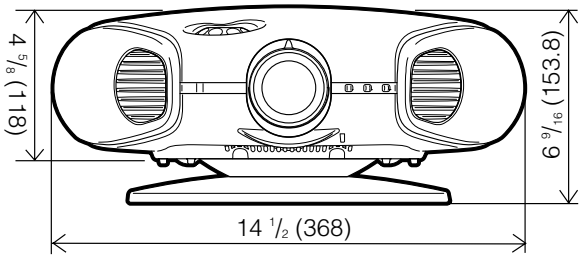
Top View



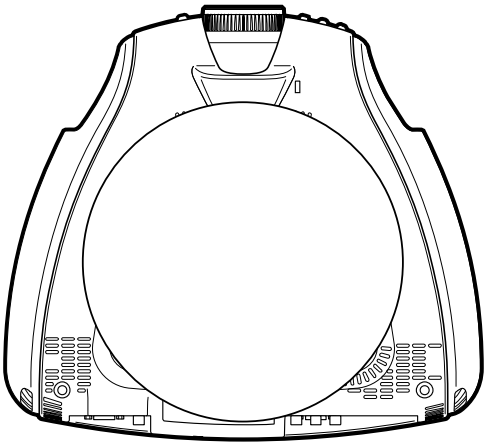
Side View



Front View



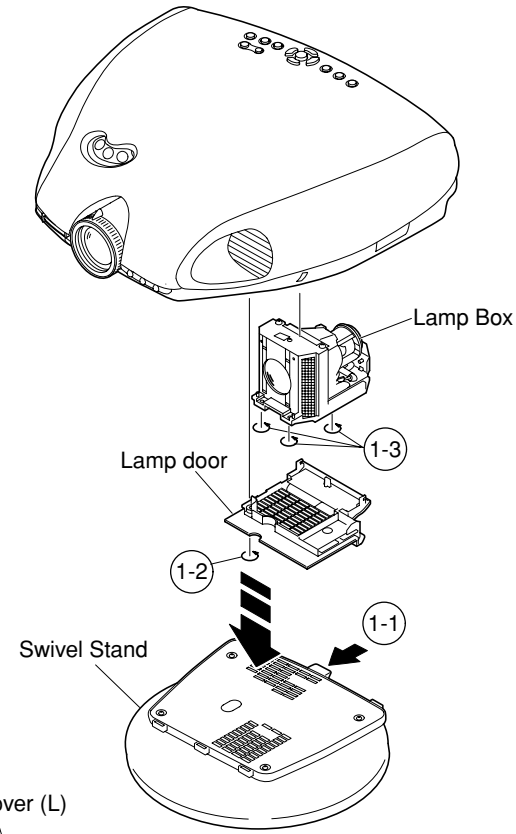
Bottom View



REMOVING OF MAJOR PARTS

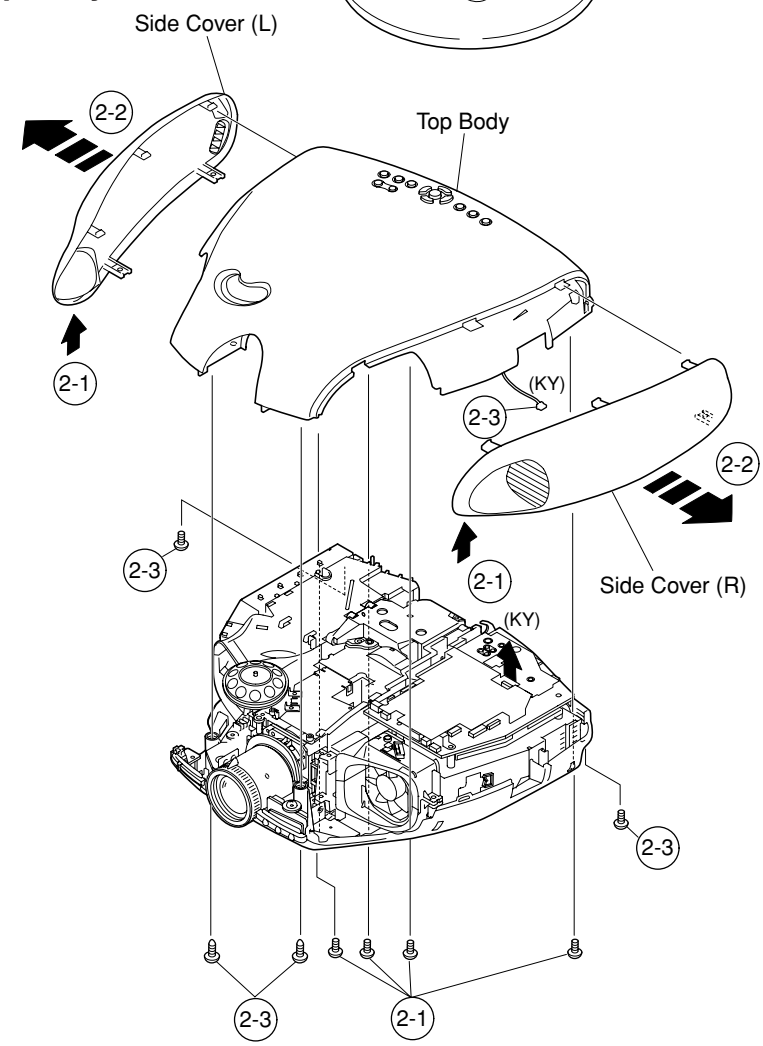
1. Removing the swivel stand and the lamp box.

1-1. Remove lock lever, and remove the swivel stand.
1-2. Loosen 1 scrwew, and remove the lamp door.
1-3. Loosen 3 screws, and take out a lamp box.



2. Removing the side covers and the top body.

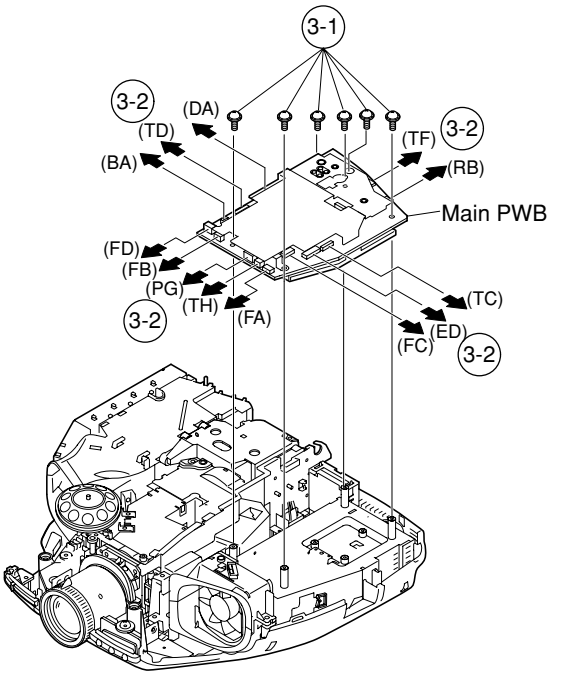
2-1. Remove 4 screws from the side cover. Push up the side cover front bottom to unlock the side cover.
2-2. Pull the side cover in the direction of the arrow, and remove it.
2-3. Remove 4 screws from the top body. Unlock the top body from the lens, slightly push up the top body, and disconnect the KY lead. Now lift away the top body.



3. Removing the main PWB.

3-1. Remove 6 screws.

3-2. Remove each connector on the main PWB.



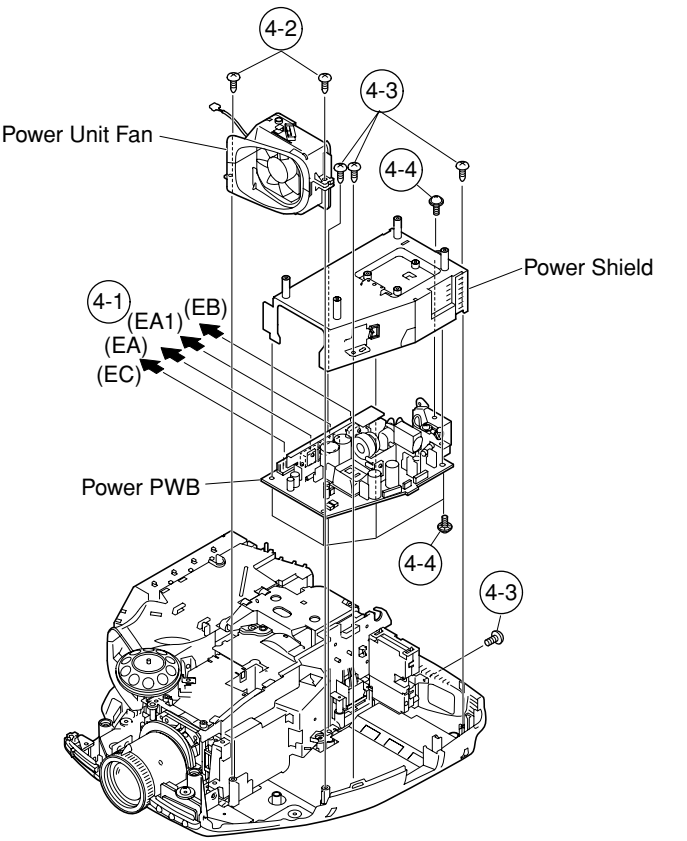
4. Removing the power unit.

4-1. Remove each connector on the power PWB.

4-2. Remove 2 screws, and remove the power unit fan.

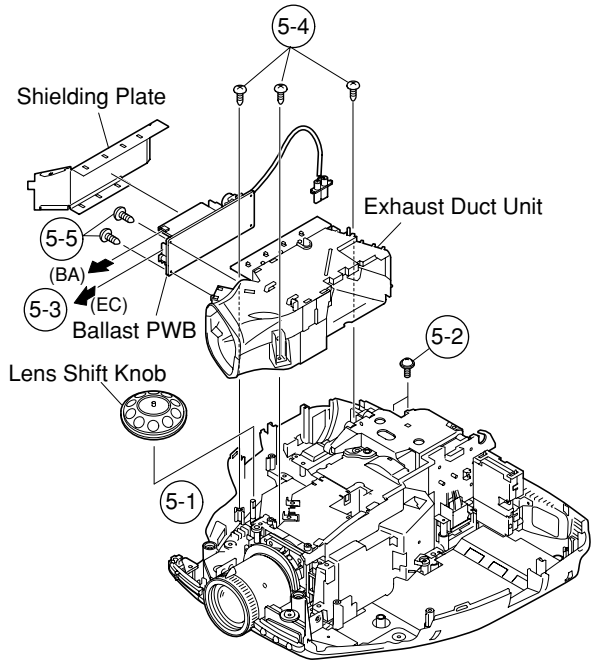
4-3. Remove 3 screws, and take out the power unit assembly.

4-4. Remove 5 screws, and remove power shield.



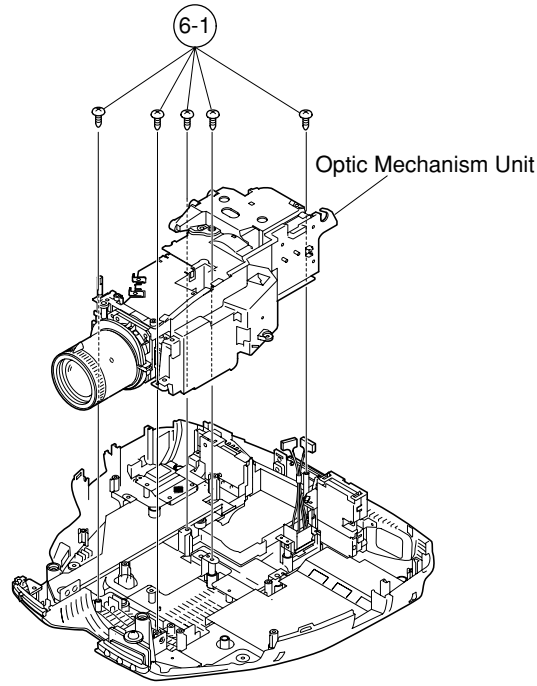
5. Removing the Ballast unit.

5-1. Remove lens shift knob.
5-2. Remove 2 screws, and remove the ballast socket.
5-3. Remove 3 screws, and remove the ballast unit.
5-4. Remove shielding plate, and remove 2 connectors on the ballast PWB.
5-5. Remove 2 screws, and remove ballast PWB.



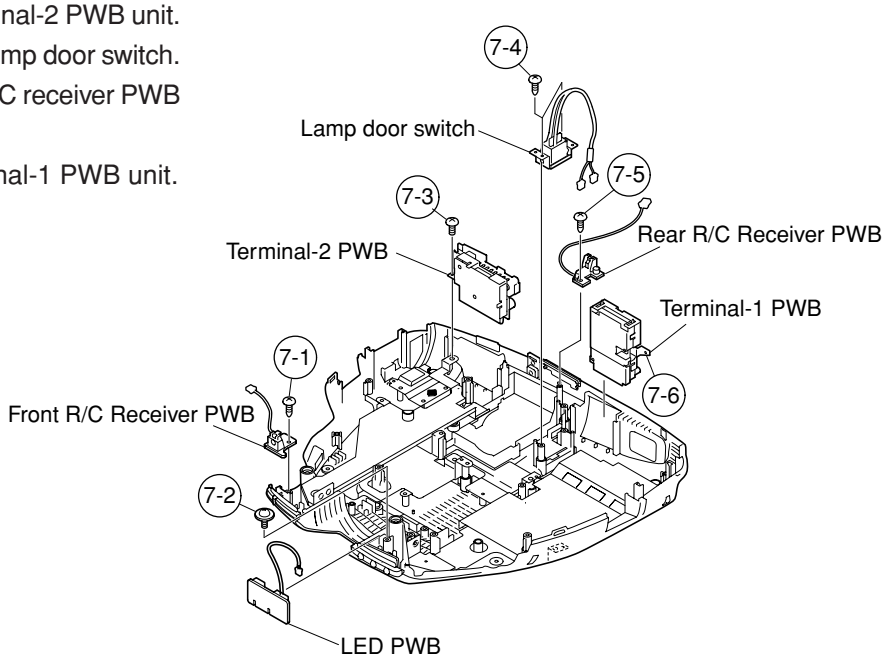
6. Removing the optic mechanism unit.

6-1. Remove 5 screws, and remove the optic mechanism unit.



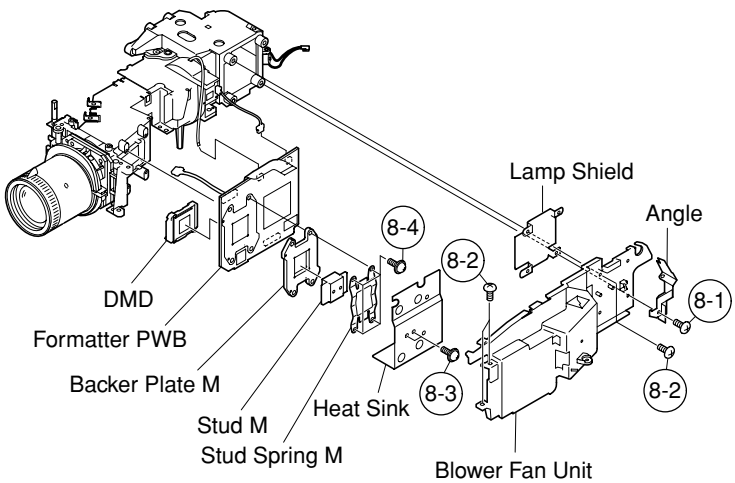
7. Removing the each other PWBs.

7-1. Remove 1 screw, and remove front R/C receiver PWB unit .
7-2. Remove 1 screw, and remove LED PWB unit.
7-3. Remove 1 screw, and remove a terminal-2 PWB unit.
7-4. Remove 2 screws, and remove an Lamp door switch.
7-5. Remove 1 screw, and remove rear R/C receiver PWB unit.
7-6. Remove 1 screw, and remove terminal-1 PWB unit.



8. Removing the formatter PWB.

8-1. Remove 1 screws, and remove the angle.
8-2. Remove 3 screws, and remove the blower fan unit.
8-3. Remove 2 screws, and remove the heat sink.
8-4. Remove 4 screws. Remove the backer plate M, stud plate M, stud spring M, and 2 connectors from the formatter PWB. After that, remove the formatter PWB.



Precautions in replacing the DMD chip

Note: Be careful not to allow dust and fingerprint on the cover glass of DMD chip and prism surface of optical engine.

1. Tighten 4 screws gradually from opposite sides to fix the backer plate M, stud spring M, and stud M. To perform this step, press the shadow part of the stud spring M to the formatter PWB with your finger.
2. If something shade appears on the projection screen like Fig1, release 2 screws on mirror adjusting plate and move that plate to adjust illumination area of DMD chip.

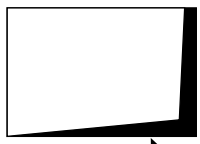
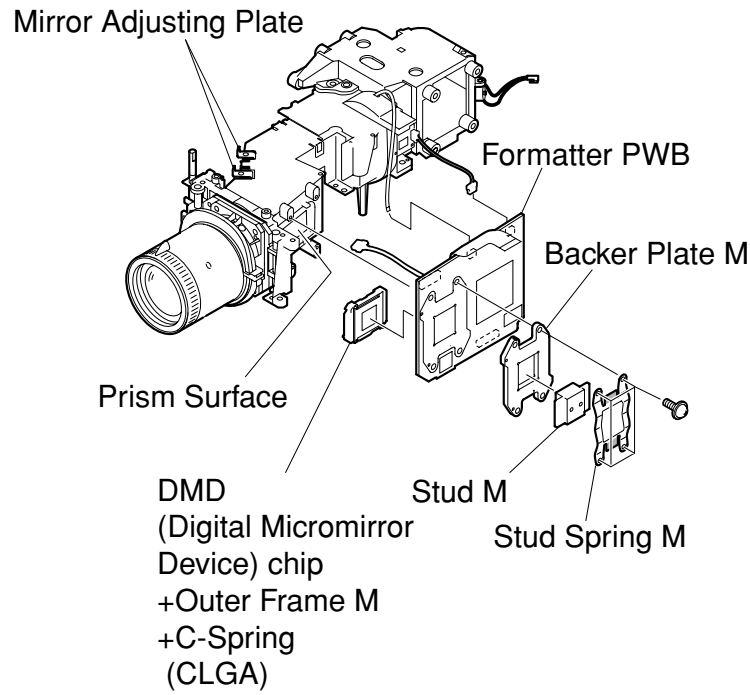


Fig.1 Shade

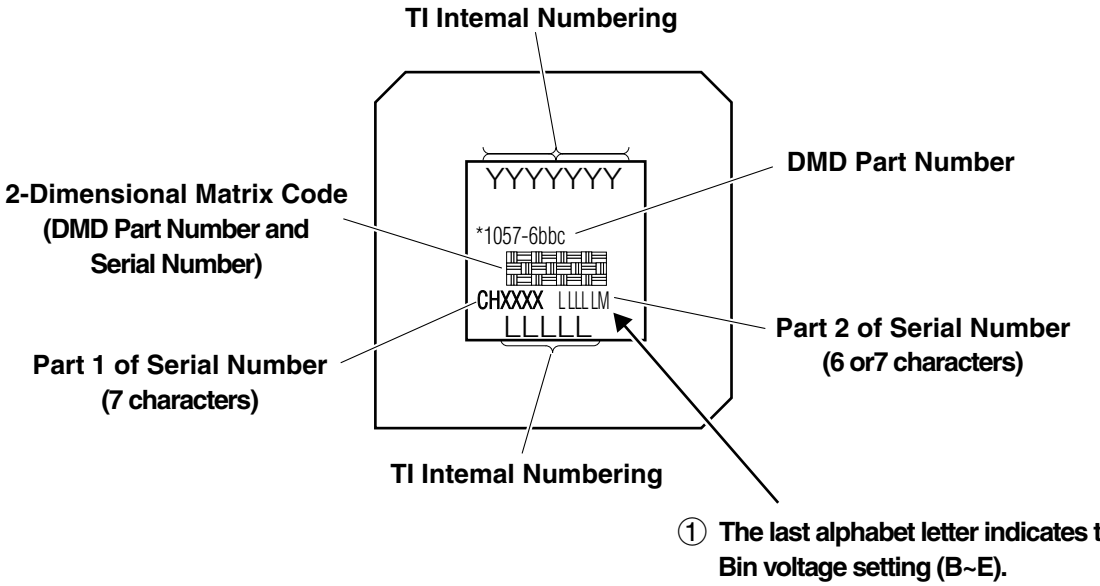


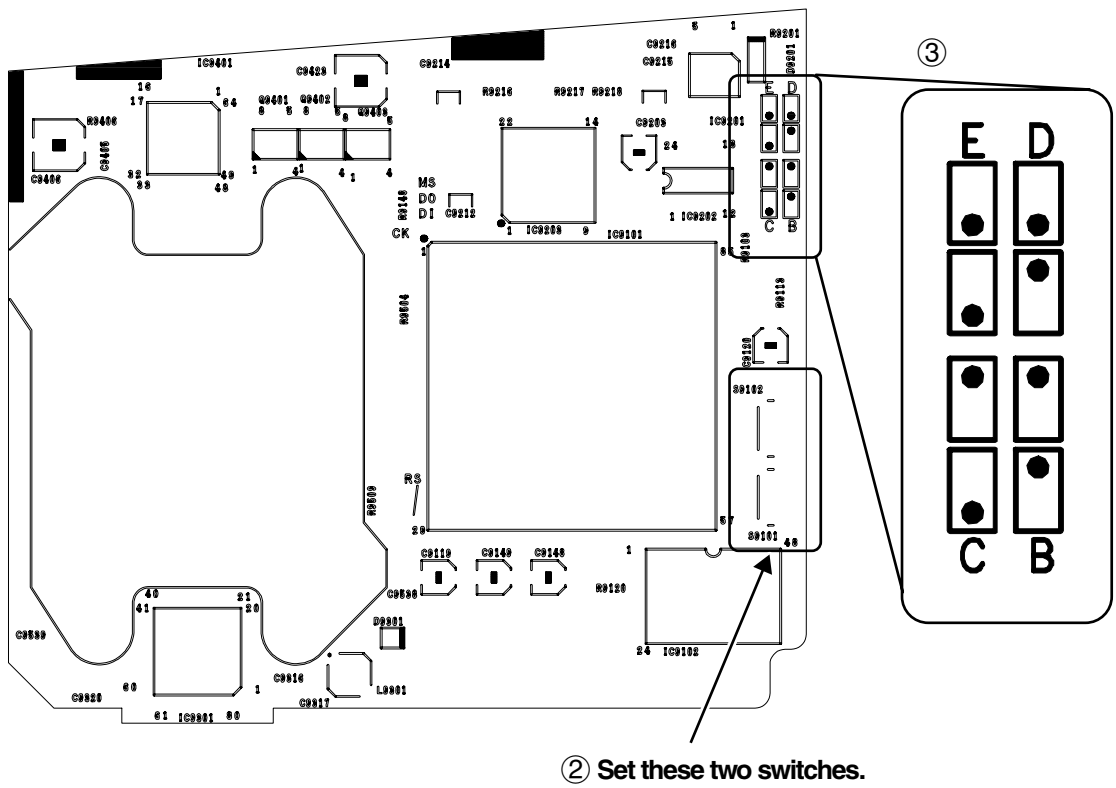
*** Precautions in setting up the DMD (Digital Micromirror Device) unit**

Before connecting the formatter PWB to the optical engine, take the following steps. Look at the voltage rank marking that is on the DMD itself. Referring to this marking, set the DIP switches on the formatter PWB. And connect this PWB to the optical engine. Wrong settings will adversely affect the system performance.

DMD Setting: Check the last alphabet character shown in ①, and set the two switches shown in ② according to the configurations shown in ③.

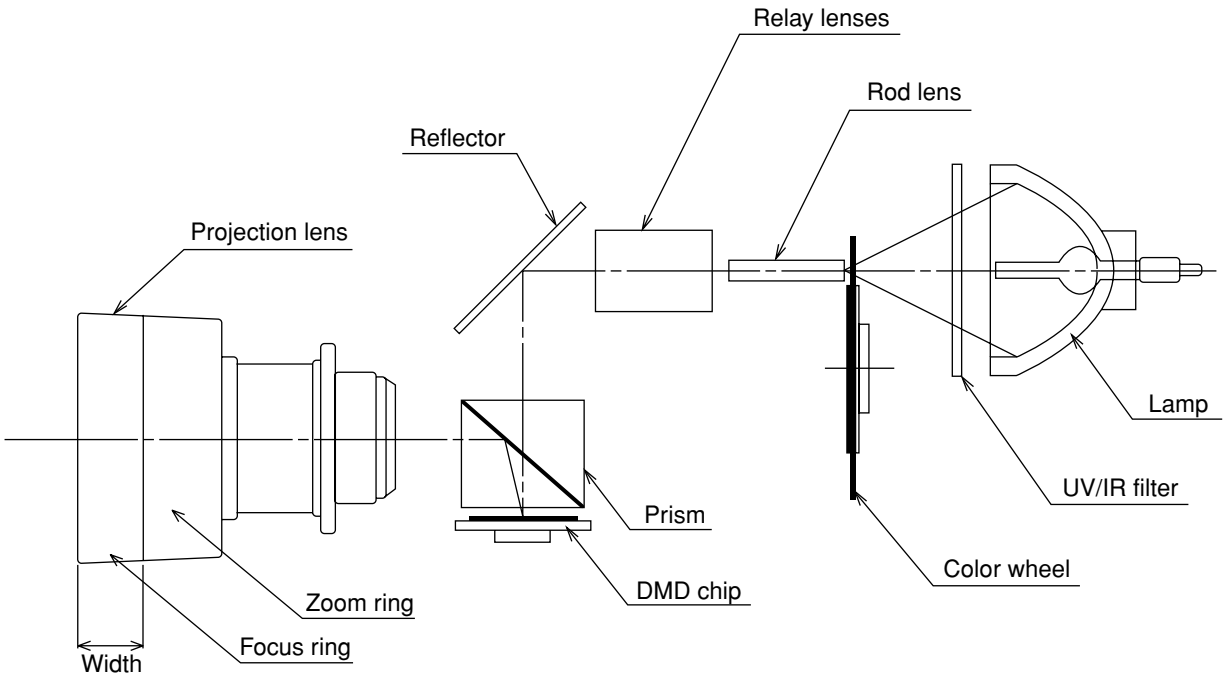
Set the formatter PWB switches according to the Bin voltage shown on the back face of the DMD.





THE OPTICAL UNIT OUTLINE

<Layout>



Item	Function
Lamp	Light source. DC-driven high-pressure mercury vapor lamp.
UV/IR filter	Used to absorb ultraviolet and infrared rays.
Color wheel	Used to let the source light through the color filter and to separate it into R, G and B colors.
Rod lens	Used to make for uniform light beams.
Relay lenses	Used to collect the light from the rod lens into the DMD chip.
Reflector	Used to reflect the light from the relay lenses against the DMD chip.
Prism	Used to introduce the light from the reflector over the effective surface of the DMD chip. When the micromirror gets tilted (ON) as specified, the reflected light is guided to the projection lens.
DMD chip	Used to turn on and off the micromirror in response to the ratio of color components at each dot and thus to reflect the incoming light accordingly.
Projection lens	Used to enlarge the light from the DMD chip and to get the light projected on the screen.

Distinction between long and short focal length lens

- Long focal length lens: focus ring width: about 18 mm ▶ XV-Z200U, XV-Z200E
- Short focal length lens: focus ring width: about 27 mm ▶ DT-300, XV-Z201E

Caution when repairing without top cabinet

To repair this set without top cabinet, attach the left side body beforehand. (Since the exhaust heat gets in around the set and the temperature sensor detects it giving the TEMP error and the lamp goes off.)

RESETTING THE TOTAL LAMP TIMER

Resetting the Lamp Timer

Reset the lamp timer after replacing the lamp.

1 Plug the power cord.

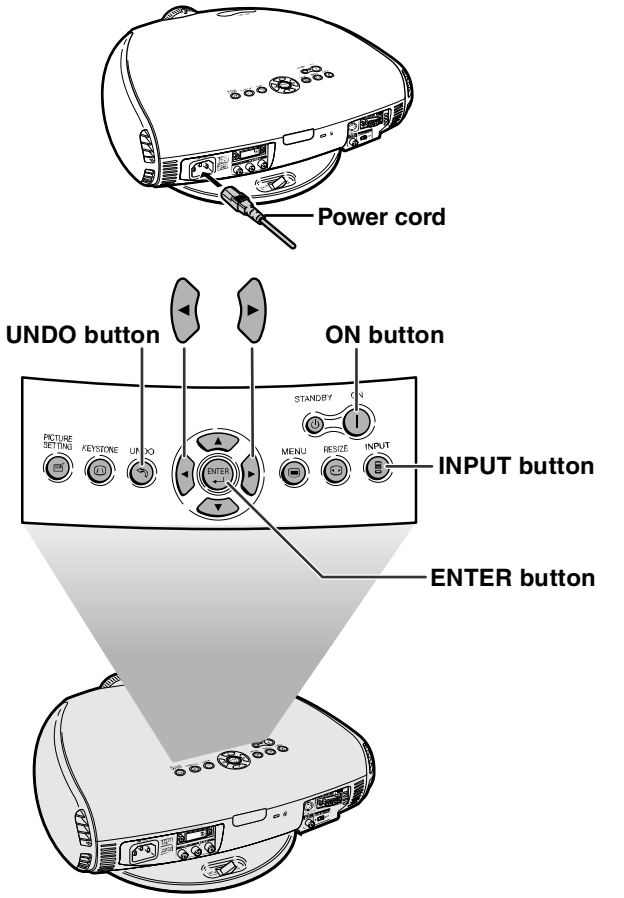
- Confirm that the POWER indicator illuminates red.

2 Reset the lamp timer.

- Press ON, INPUT, UNDO, ◄, ENTER and ► in order. Then press ON.
- LAMP 0000H is displayed on the screen.

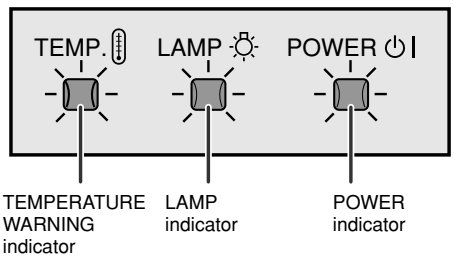
Info

- Make sure to reset the lamp timer only when replacing the lamp. If you reset the lamp timer and continue to use the same lamp, the lamp may become damaged or explode.



Maintenance Indicators

■ **The warning lights on the projector indicate problems inside the projector.**
■ **If a problem occurs, either the temperature warning indicator or the lamp indicator will illuminate red, and the projector will enter the standby mode. After the projector has entered the standby mode, follow the procedures given below.**



About the temperature warning indicator

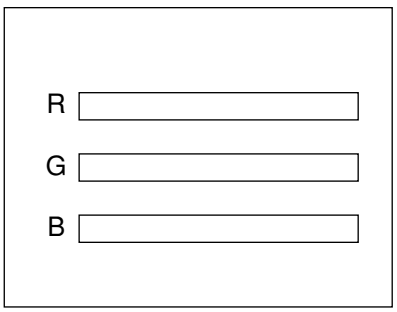
If the temperature inside the projector increases, due to blockage of the air vents, or the setting location, "TEMP." will illuminate in the lower left corner of the picture. If the temperature keeps on rising, the lamp will turn off and the temperature warning indicator will blink, the cooling fan will run for a further 90 seconds, and then the projector will enter the standby mode. After "TEMP." appears, be sure to perform the following measures.

About the lamp indicator

■ The lamp life becomes 0%, when used for approximately 4,000 hours with "Eco mode" or when used for approximately 3,000 hours with "Standard mode".
■ When the remaining lamp life becomes 5% or less, "" (yellow) will be displayed on the screen. When the percentage becomes 0%, "" will change to "" (red), the lamp will automatically turn off and then the projector will automatically enter the standby mode. At this time, the lamp indicator will illuminate in red.
■ If you try to turn on the projector a fourth time without replacing the lamp, the projector will not turn on.

Maintenance indicator			Condition	Problem	Possible Solution
	Normal	Abnormal			
Temperature warning indicator	Off	Red on/ Standby	The internal temperature is abnormally high.	• Blocked air intake	• Relocate the projector to an area with proper ventilation.
				• Cooling fan breakdown • Internal circuit failure • Clogged air intake	• Take the projector to your nearest Authorized SharpVision Service Center or Dealer for repair.
Lamp indicator	Green on (Green blinks when the lamp is warming up.)	Red on	Time to change the lamp.	• Remaining lamp life becomes 5% or less.	• Carefully replace the lamp. • Take the projector to your nearest Authorized SharpVision Service Center or Dealer for repair. • Please exercise care when replacing the lamp.
		Red on/ Standby	The lamp does not illuminate.	• Burnt-out lamp • Lamp circuit failure	
Power indicator	Green on/ Red on	Off	The power is not turned on.	• The lamp unit cover is open.	• Securely install the cover. • If the power is not turned on even when the lamp unit cover is securely installed, contact your nearest Authorized SharpVision Service Center or Dealer for advice.

ELECTRICAL ADJUSTMENT

No.	Adjusting point	Adjusting conditions	Adjusting procedure
1	**Initialization of EEPROM**	1. Turn on the power (the lamp lights up) and warm up the system for 15 minutes.	1. Carry out the following setting. Using the remote controller or press S2002 to enter the process mode, and execute SS2 on SS menu.
2	**Adjustment of CW index**	1. Input the gradation pattern of RGB. (SVGA60Hz or XGA) 2. Select the following group and subject. Group: DLP Subject: Select INDEX DELAY.	1. Select subject and make adjustment so that the lamp gradation patterns of R, G and B should be smooth without noise. 
3-1	**R-Bright / R-Contrast (Manual or auto adjustment)**	1. Group: AD Subject: R-BRIGHT (Black level) R-CONTRAST (White level) 2. Feed the window pattern signal containing 91% (0.64Vp-p) R signal and 0% level. (Process/Gamma interaction) (SVGA or XGA) Input 2 RGB input	1. Observe the 0% window pattern. 2. On the screen with missing bits (red bright spot appearing at the center of the screen), adjust the R-Bright setting until the all-black screen becomes bit-less for the first time. 3. Observe the 91% window pattern. 4. On the screen with missing bits, adjust the R-Contrast setting until the all-black screen becomes bit-less for the first time.
3-2	**G-Bright / G-Contrast (Manual or auto adjustment)**	1. Group: AD Subject: G-BRIGHT (Black level) G-CONTRAST (White level) 2. Feed the window pattern signal containing 91% (0.64Vp-p) G signal and 0% level. (Process/Gamma interaction) (SVGA or XGA) Input 2 RGB input	1. Observe the 0% window pattern. 2. On the screen with missing bits, adjust the G-Bright setting until the all-black screen becomes bit-less for the first time. 3. Observe the 91% window pattern. 4. On the screen with missing bits, adjust the G-Contrast setting until the all-black screen becomes bit-less for the first time.

No.	Adjusting point	Adjusting conditions	Adjusting procedure
3-3	**B-Bright / B-Contrast (Manual or auto adjustment)**	1. Group: AD Subject: B-BRIGHT (Black level) B-CONTRAST (White level) 2. Feed the window pattern signal containing 91% (0.64Vp-p) B signal and 0% level. (Process/Gamma interaction) (SVGA or XGA) Input 2 RGB input	1. Observe the 0% window pattern. 2. On the screen with missing bits, adjust the B-Bright setting until the all-black screen becomes bit-less for the first time. 3. Observe the 91% window pattern. 4. On the screen with missing bits, adjust the B-Contrast setting until the all-black screen becomes bit-less for the first time.
4-1	**DTV Bright/ Contrast Adjustment**	1. Group: DTV Subject:BRIGHT (Black level) CONTRAST (White level)	1. Check the fixed value. Contrast: 5 Bright: 55
4-2	**DTV R-Bright/ Contrast Adjustment**	1. Group: DTV Subject:R-BRIGHT (Black level) R-CONTRAST (White level)	1. Observe the 0% window pattern. 2. On the screen with missing bits, adjust the R-Bright setting until the all-black screen becomes bit-less for the first time. 3. Observe the 100% white window pattern. 4. On the screen with missing bits, adjust the Contrast setting until the all-black screen becomes bit-less for the first time.
4-3	**DTV G-Bright/ Contrast Adjustment**	1. Group: DTV Subject:G-BRIGHT (Black level) G-CONTRAST (White level)	1. Observe the 0% window pattern. 2. On the screen with missing bits, adjust the G-Bright setting until the all-black screen becomes bit-less for the first time. 3. Observe the 100% white window pattern. 4. On the screen with missing bits, adjust the Contrast setting until the all-black screen becomes bit-less for the first time.
4-4	**DTV B-Bright/ Contrast Adjustment**	1. Group: DTV Subject:B-BRIGHT (Black level) B-CONTRAST (White level)	1. Observe the 0% window pattern. 2. On the screen with missing bits, adjust the B-Bright setting until the all-black screen becomes bit-less for the first time. 3. Observe the 100% white window pattern. 4. On the screen with missing bits, adjust the Contrast setting until the all-black screen becomes bit-less for the first time.

No.	Adjusting point	Adjusting conditions	Adjusting procedure
5	**DTV Tint**	1. Group: DTV Subject: Tint	1. Check the fixed value. Tint: 8
6	**DTV Color Saturation Level**	1. Group: DTV Subject: Color	1. Check the fixed value. Color: 6
7	**DVD Bright/ Contrast Adjustment**	1. Group: DVD Subject:BRIGHT (Black level) CONTRAST (White level)	1. Check the fixed value. Contrast: 5 Bright: 55
8	**DVD Tint**	1. Group: DVD Subject: Tint	1. Check the fixed value. Tint: 4
9	**DTV Color Saturation Level**	1. Group: DVD Subject: Color	1. Check the fixed value. Color: 8
10	**Video Bright/ Contrast Adjustment**	1. Group: VIDEO Subject:BRIGHT (Black level) CONTRAST (White level)	1. Check the fixed value. Contrast: 5 Bright: 55
11	**VIDEO Tint**	1. Group: VIDEO Subject:N-Tint P-Tint S-Tint	1. Check the fixed values. N-Tint: 8 P-Tint: 4 S-Tint: 4
12	**VIDEO Color Saturation Level**	1. Group: VIDEO Subject:N-Color P-Color S-Color	1. Check the fixed values. N-Color: 7 P-Color: 4 S-Color: 7
13	**DVD White balance (Auto adjustment)**	1. Feed the XGA 75% gray scale signal. 2. Group: PIXEL Subject:R-GAIN (R) B-GAIN (B) Input 2	1. Adjust the white balance by controlling R-GAIN and B-GAIN. (Adjust x=296 and y=325.)
14	**Factory settings**		1. Make the following settings

Destination	Process adjustment	Remote controller setting
Europe	SS3	Factory setting 3
North America	SS4	Factory setting 4

• Entering the adjustment process mode

There are following two methods.

- Press the S2002 on the MAIN PWB.
- Press the following keys in this order.
  Adj up→Adj up→Adj down→Adj down→Adj right→Adj left→Enter

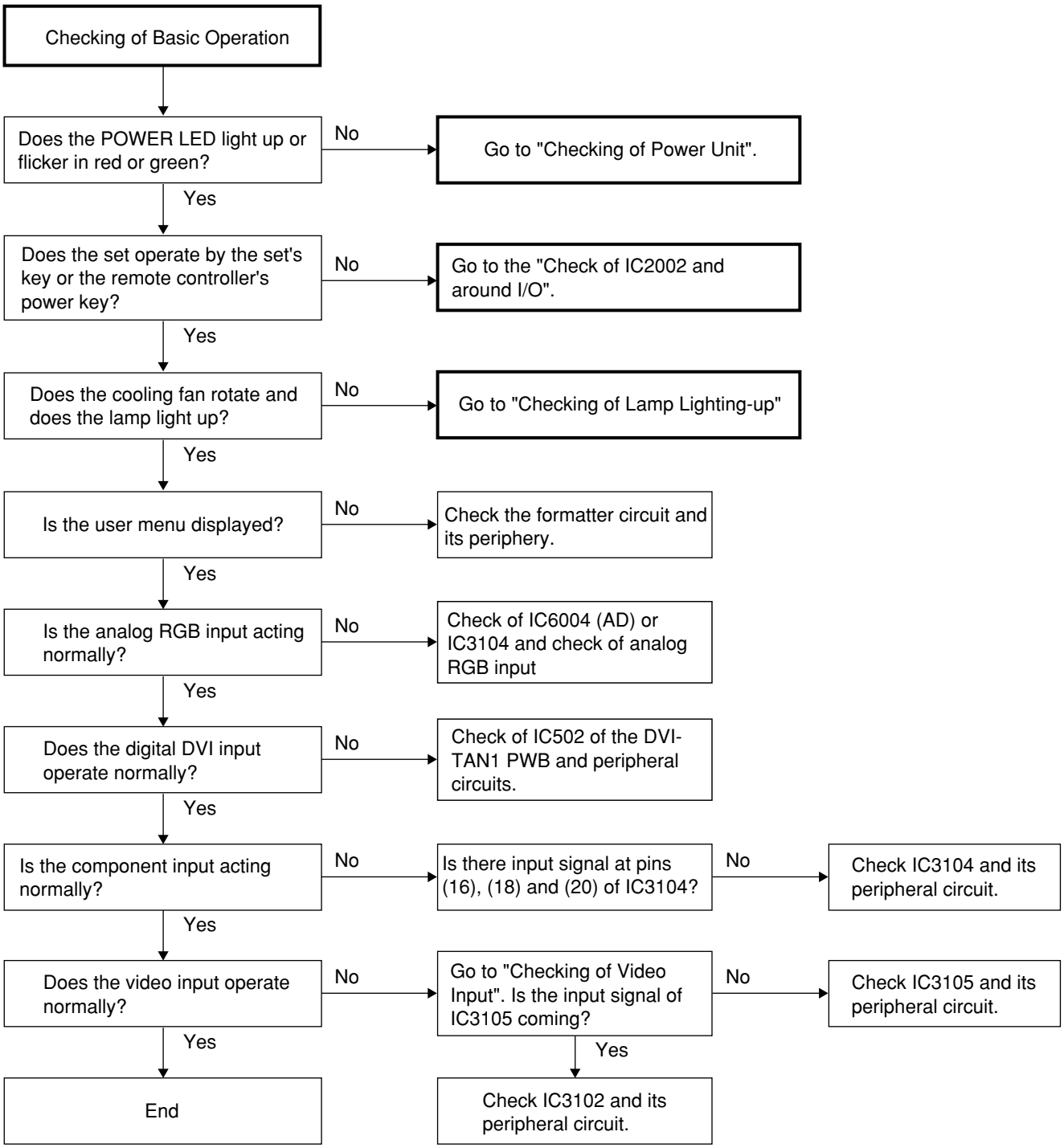
• Adjustment mode process menu

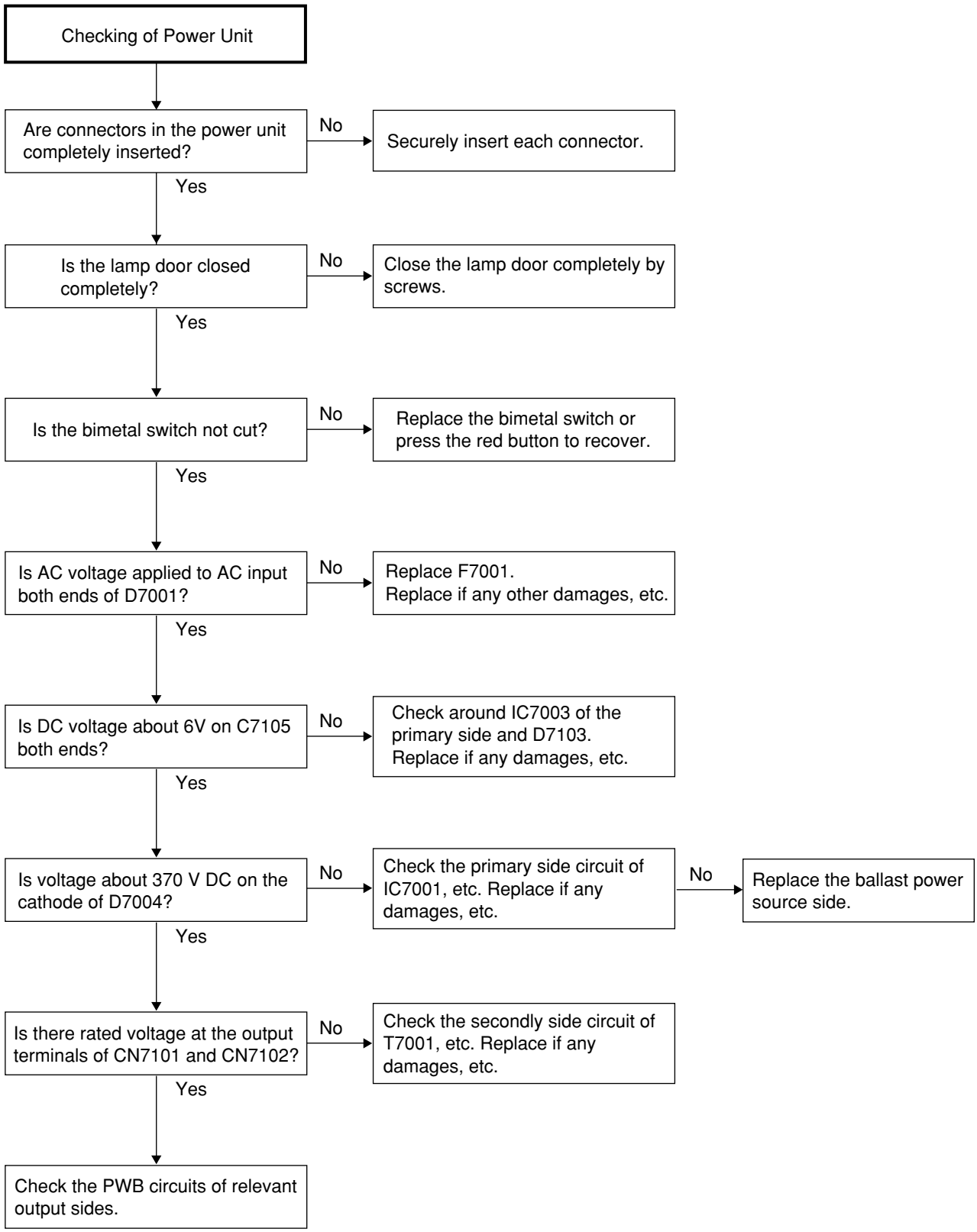
	Group	Subject
1st layer	DTV	VERSION
	DVD	SS
	VIDEO	TEMP
	AD	OPTION
	DLP	PATTERN
	VIDEO1	LAMP
	PIXEL	LINE
	REDESTA	EXIT

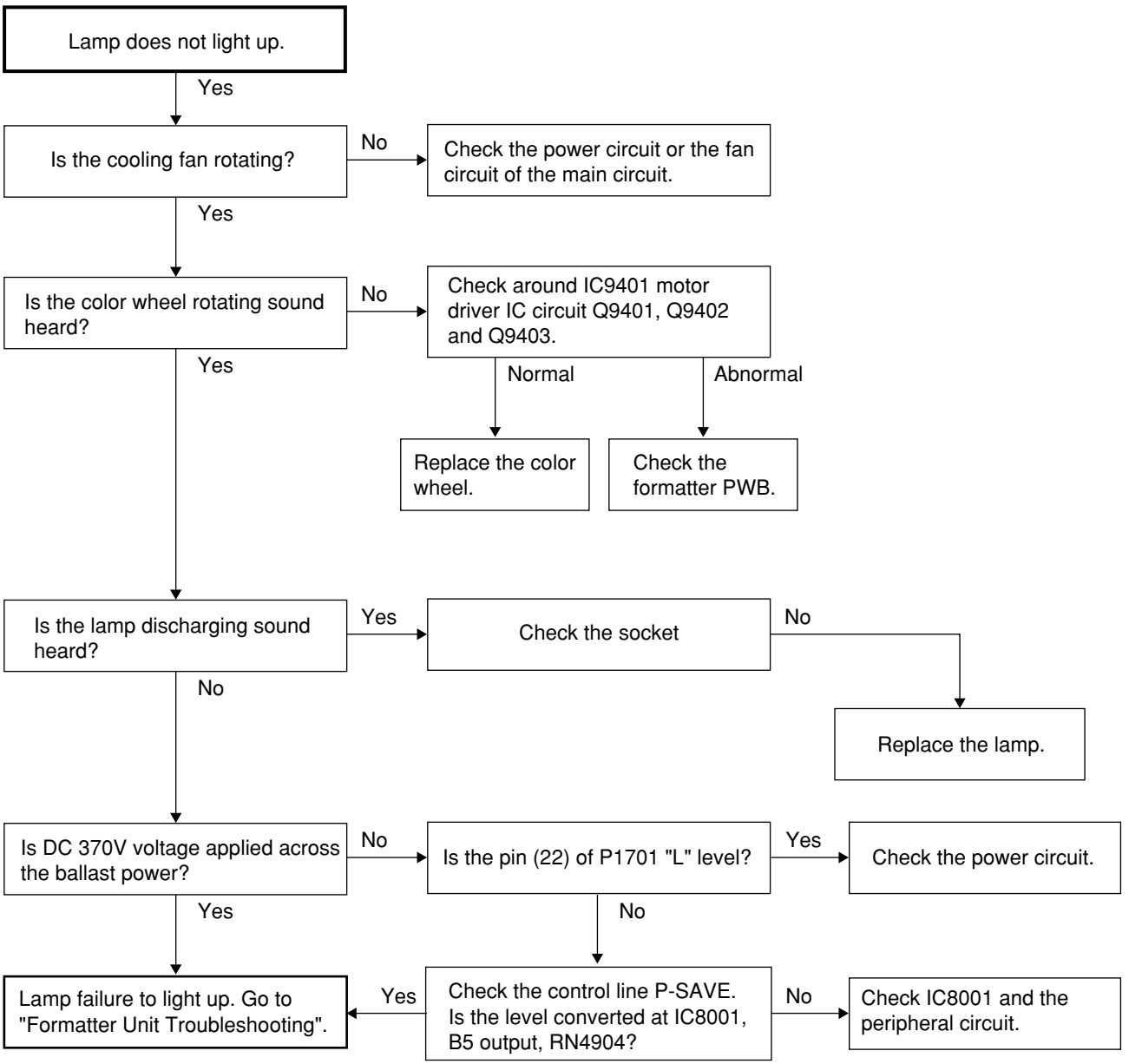
	Group	Subject
2nd layer	DTV	Contrast
		Tint
		Color
		Sharpness
		Bright
		R-Bright
		G-Bright
		B-Bright
		R-Contrast
		G-Contrast
		B-Contrast
	DVD	Contrast
		Tint
		Color
		Sharpness
		CTI-Level
		LTI-Level
		CB-Offset
		CR-Offset
		Bright
		B-DRIVE
		R-DRIVE
	VIDEO	Contrast
		N-Tint
		P-Tint
		S-Tint
		N-Color
		P-Color
		S-Color
		Sharpness
		CTI-Level
		LTI-Level
		CB-Offset
		CR-Offset
		Bright
		B-DRIVE
		R-DRIVE
	AD	R-Bright
		G-Bright
		B-Bright
		R-Contrast
		B-Contrast
		B-Contrast

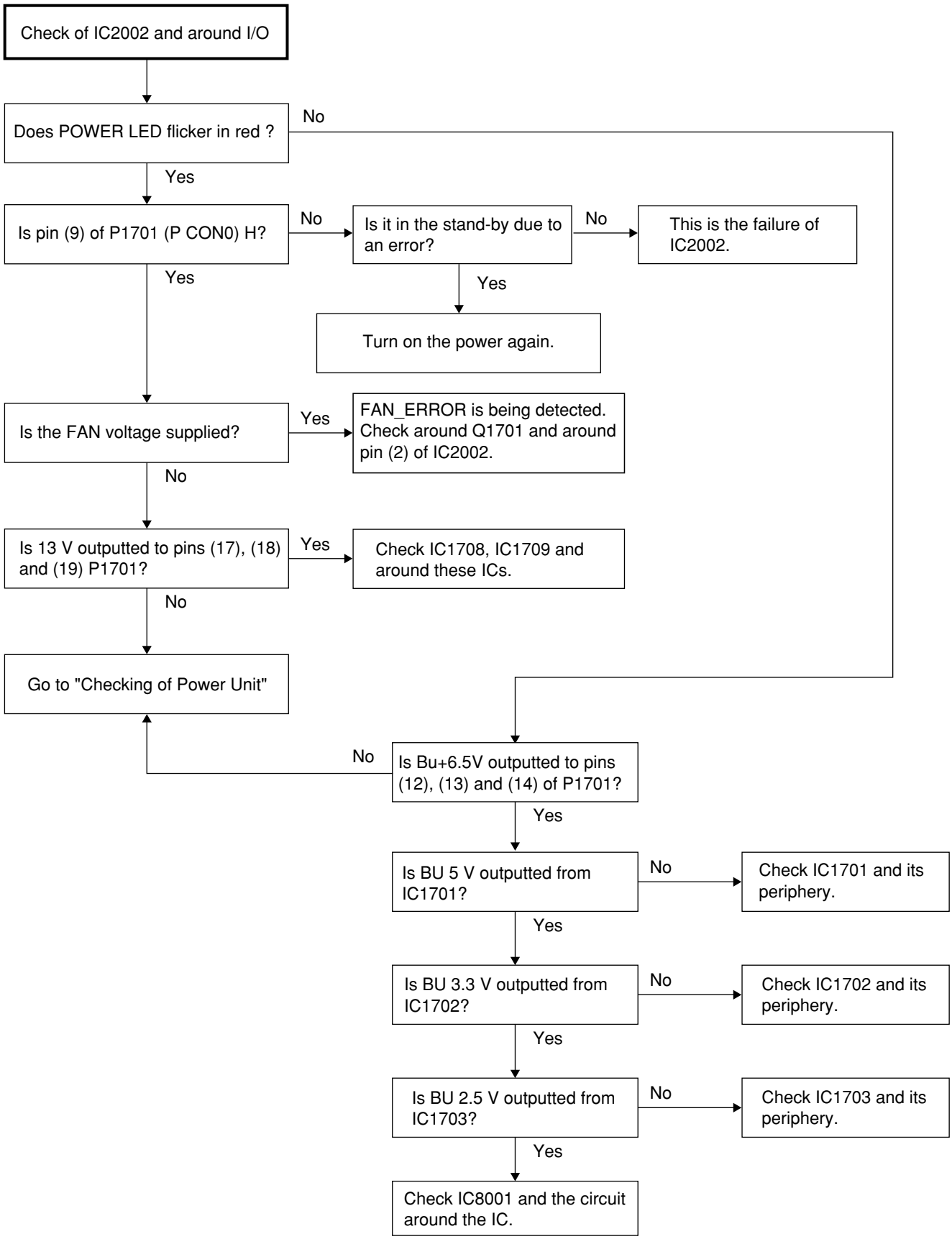
	DLP	Index Delay
		R-Bright
		G-Bright
		B-Bright
		R-Contrast
		G-Contrast
		B-Contrast
	VIDEO1	N-Contrast
		P-Contrast
		S-Contrast
		Color
		NT3.58 Delay
		NT4.43 Delay
		PAL Delay
		SECAM Delay
		Sharpness2
	PIXEL	R-GAIN
		G-GAIN
		B-GAIN
	Pedestal	R-Bright
		G-Bright
		B-Bright
		R-Contrast
		G-Contrast
		B-Contrast
	VERSION	Build
		Boot Code
		Config
		Rom Code
		GUI
	SS	SS2
		SS3 EU
		SS4 US
		SS5 JPN
		SS6 CHIN
	TEMP	Temp1
		Temp2
		Temp3
		Temp4
	OPTION	PW365 Gamma
		DLP Gamma
	PATTERN	Cross Hatch
		Color Bar
	LAMP	Current Time
		History1
		History2
		History3
		History4
		TOTAL TIME
	LINE	OFF
		LED CHECK

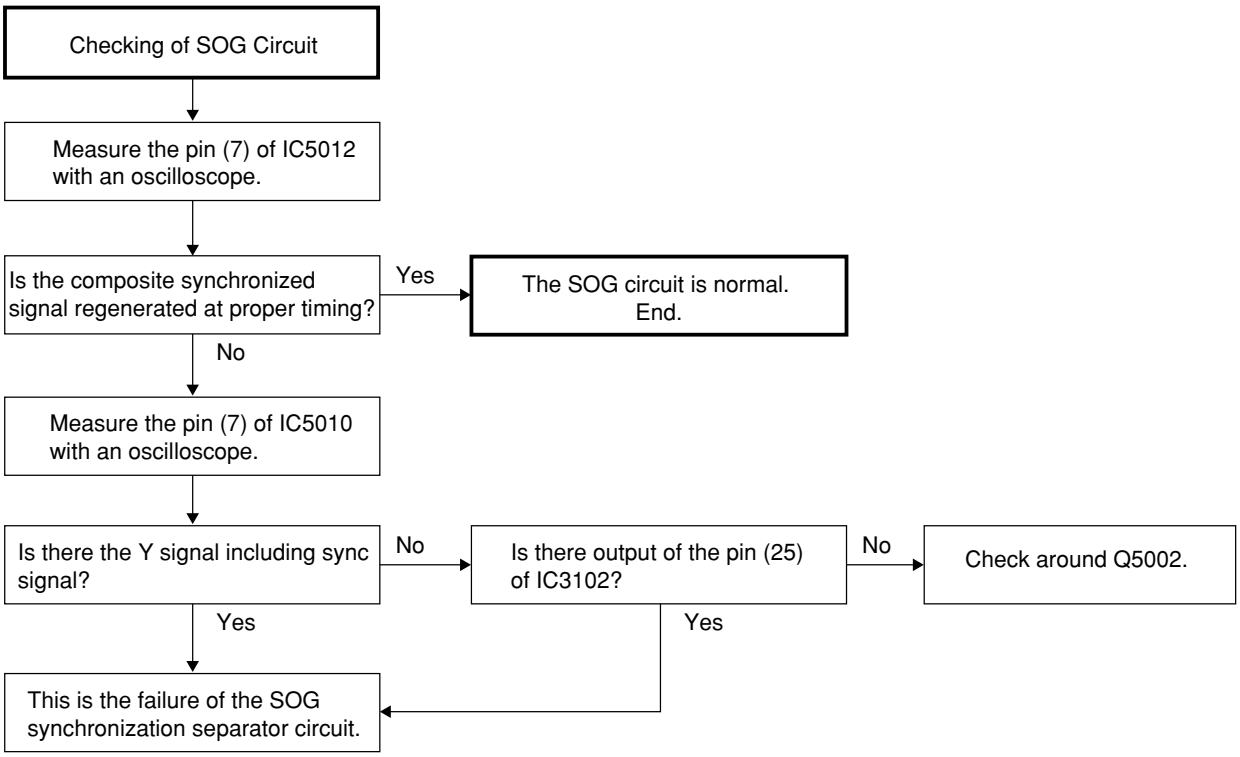
TROUBLESHOOTING TABLE

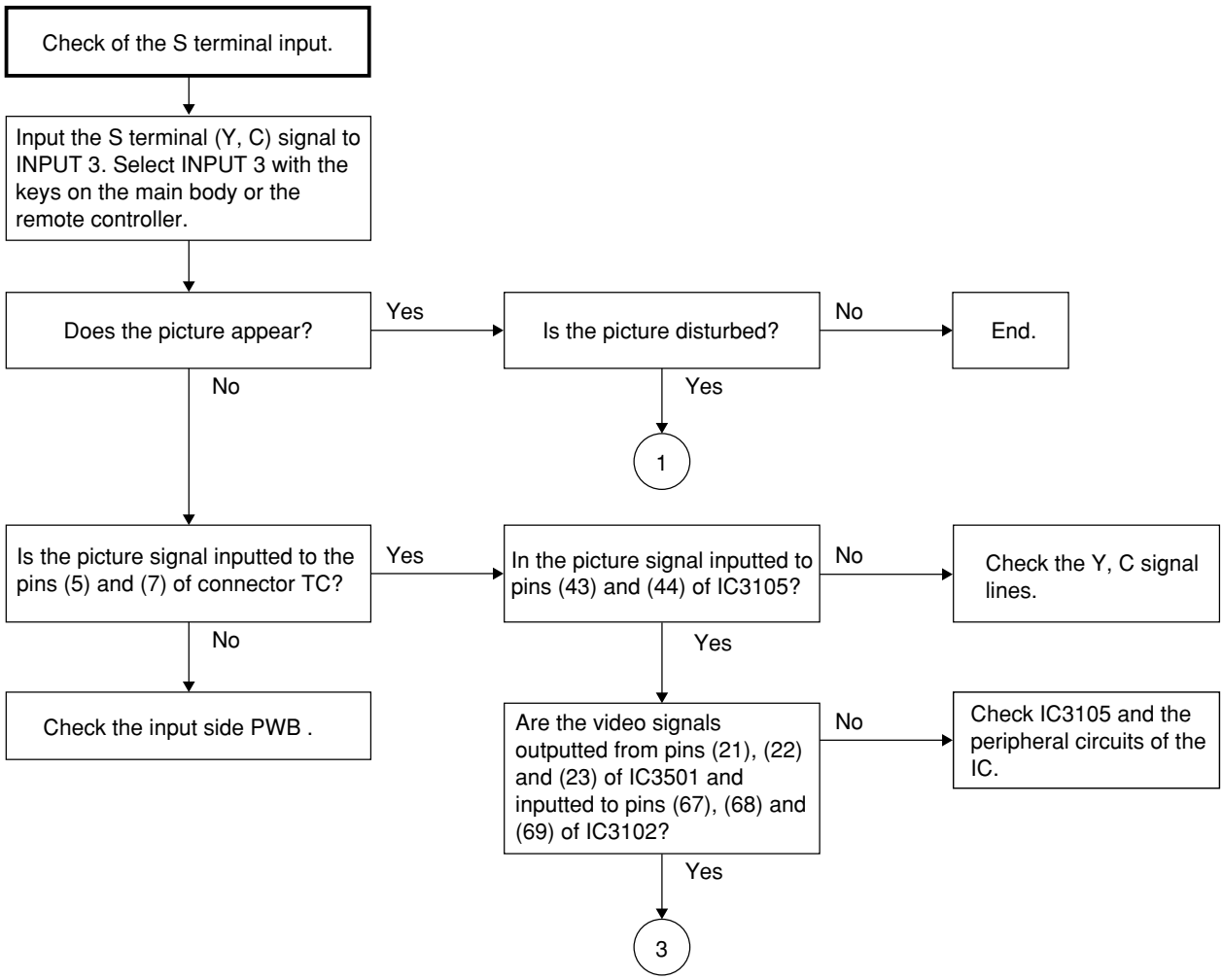


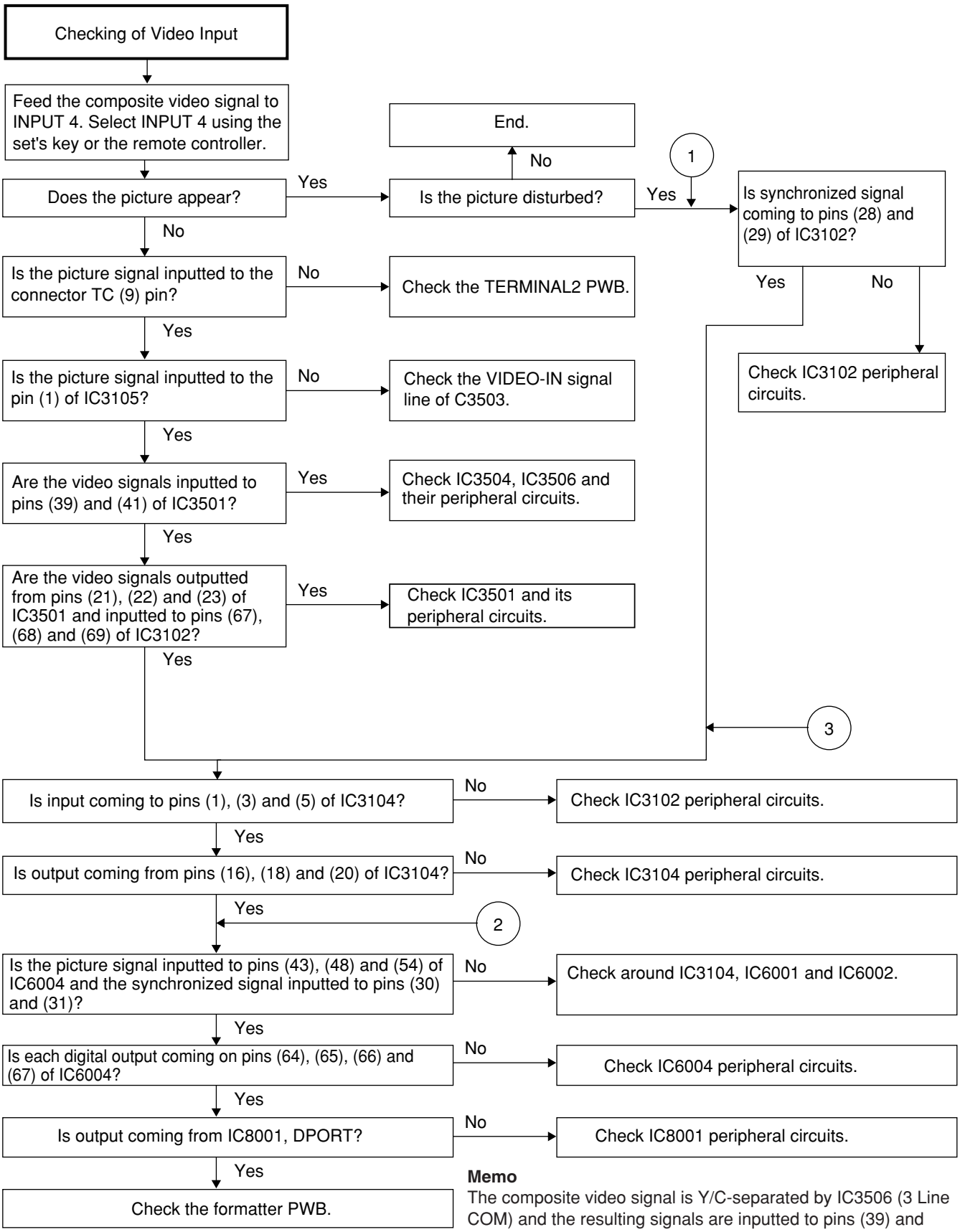

Checking of Power Unit
Are connectors in the power unit completely inserted?
No
Securely insert each connector.
Yes
Is the lamp door closed completely?
No
Close the lamp door completely by screws.
Yes
Is the bimetal switch not cut?
No
Replace the bimetal switch or press the red button to recover.
Yes
Is AC voltage applied to AC input both ends of D7001?
No
Replace F7001.
Replace if any other damages, etc.
Yes
Is DC voltage about 6V on C7105 both ends?
No
Check around IC7003 of the primary side and D7103.
Replace if any damages, etc.
Yes
Is voltage about 370 V DC on the cathode of D7004?
No
Check the primary side circuit of IC7001, etc. Replace if any damages, etc.
No
Replace the ballast power source side.
Yes
Is there rated voltage at the output terminals of CN7101 and CN7102?
No
Check the secondly side circuit of T7001, etc. Replace if any damages, etc.
Yes
Check the PWB circuits of relevant output sides.


Lamp does not light up.
Yes
Is the cooling fan rotating?
No
Check the power circuit or the fan circuit of the main circuit.
Yes
Is the color wheel rotating sound heard?
No
Check around IC9401 motor driver IC circuit Q9401, Q9402 and Q9403.
Yes
Normal
Abnormal
Replace the color wheel.
Check the formatter PWB.
Is the lamp discharging sound heard?
Yes
Check the socket
No
Replace the lamp.
No
Is DC 370V voltage applied across the ballast power?
No
Is the pin (22) of P1701 "L" level?
Yes
Check the power circuit.
Yes
No
Lamp failure to light up. Go to "Formatter Unit Troubleshooting".
Yes
Check the control line P-SAVE. Is the level converted at IC8001, B5 output, RN4904?
No
Check IC8001 and the peripheral circuit.


Check of IC2002 and around I/O
Does POWER LED flicker in red ?
No
Yes
Is pin (9) of P1701 (P CON0) H?
No
Is it in the stand-by due to an error?
No
This is the failure of IC2002.
Yes
Yes
Turn on the power again.
Is the FAN voltage supplied?
Yes
FAN_ERROR is being detected. Check around Q1701 and around pin (2) of IC2002.
No
Is 13 V outputted to pins (17), (18) and (19) P1701?
Yes
Check IC1708, IC1709 and around these ICs.
No
Go to "Checking of Power Unit"
No
Is Bu+6.5V outputted to pins (12), (13) and (14) of P1701?
Yes
Is BU 5 V outputted from IC1701?
No
Check IC1701 and its periphery.
Yes
Is BU 3.3 V outputted from IC1702?
No
Check IC1702 and its periphery.
Yes
Is BU 2.5 V outputted from IC1703?
No
Check IC1703 and its periphery.
Yes
Check IC8001 and the circuit around the IC.


Checking of SOG Circuit
Measure the pin (7) of IC5012 with an oscilloscope.
Is the composite synchronized signal regenerated at proper timing?
Yes
The SOG circuit is normal. End.
No
Measure the pin (7) of IC5010 with an oscilloscope.
Is there the Y signal including sync signal?
No
Is there output of the pin (25) of IC3102?
No
Check around Q5002.
Yes
Yes
This is the failure of the SOG synchronization separator circuit.

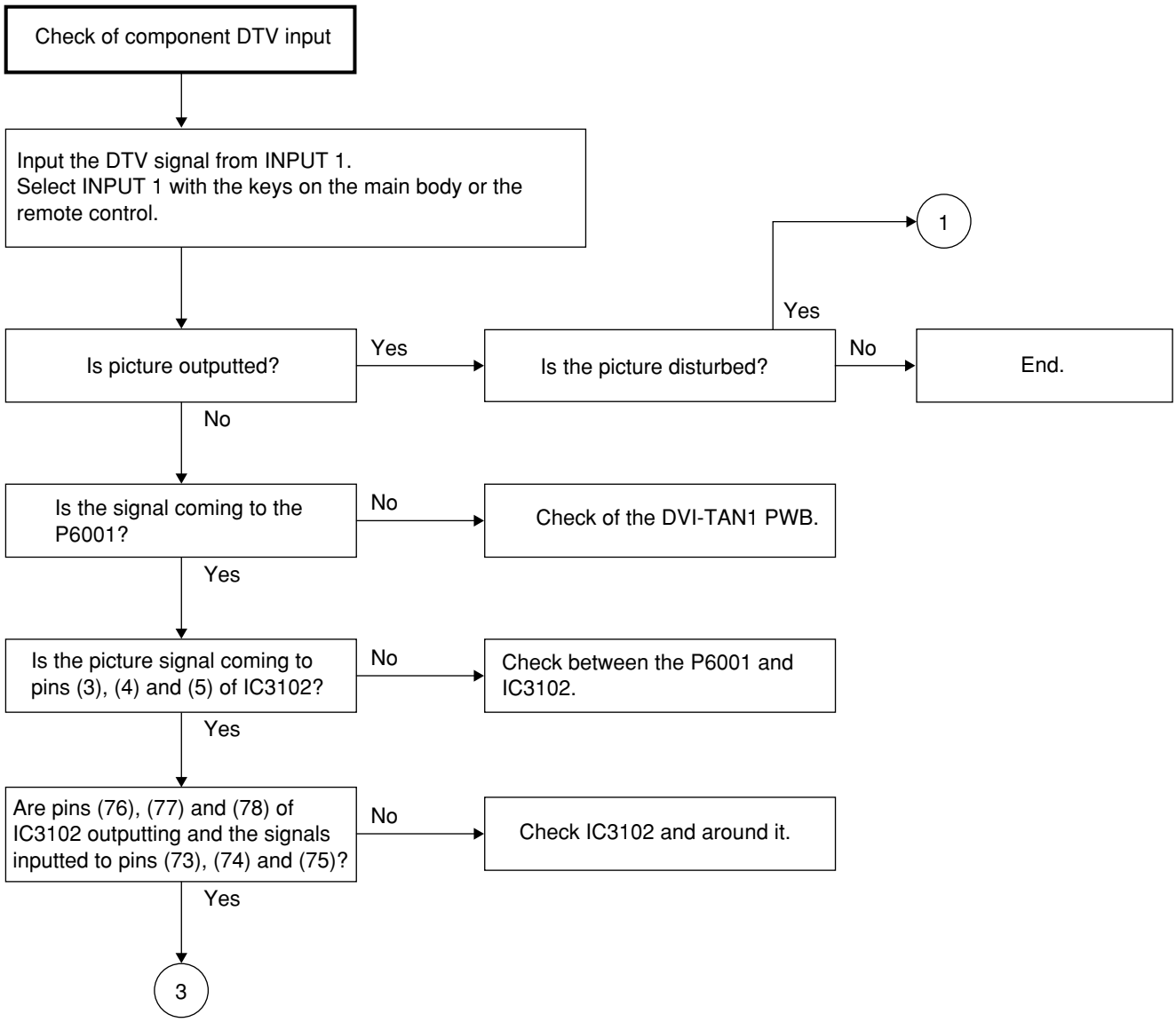

Check of the S terminal input.
Input the S terminal (Y, C) signal to INPUT 3. Select INPUT 3 with the keys on the main body or the remote controller.
Does the picture appear?
Yes
Is the picture disturbed?
No
End.
No
Yes
1
Is the picture signal inputted to the pins (5) and (7) of connector TC?
Yes
In the picture signal inputted to pins (43) and (44) of IC3105?
No
Check the Y, C signal lines.
No
Yes
Check the input side PWB .
Are the video signals outputted from pins (21), (22) and (23) of IC3501 and inputted to pins (67), (68) and (69) of IC3102?
No
Check IC3105 and the peripheral circuits of the IC.
Yes
3

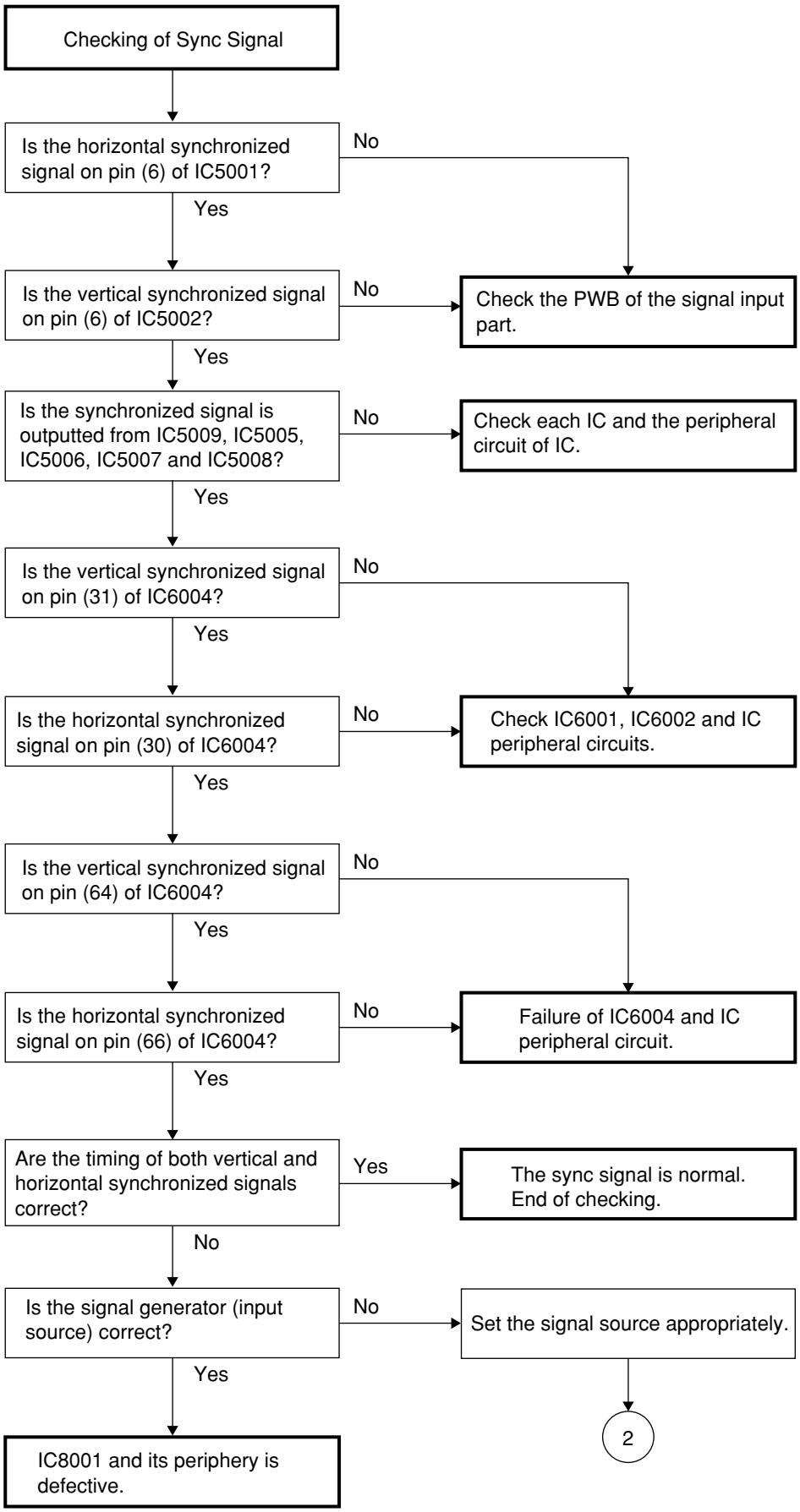


Memo

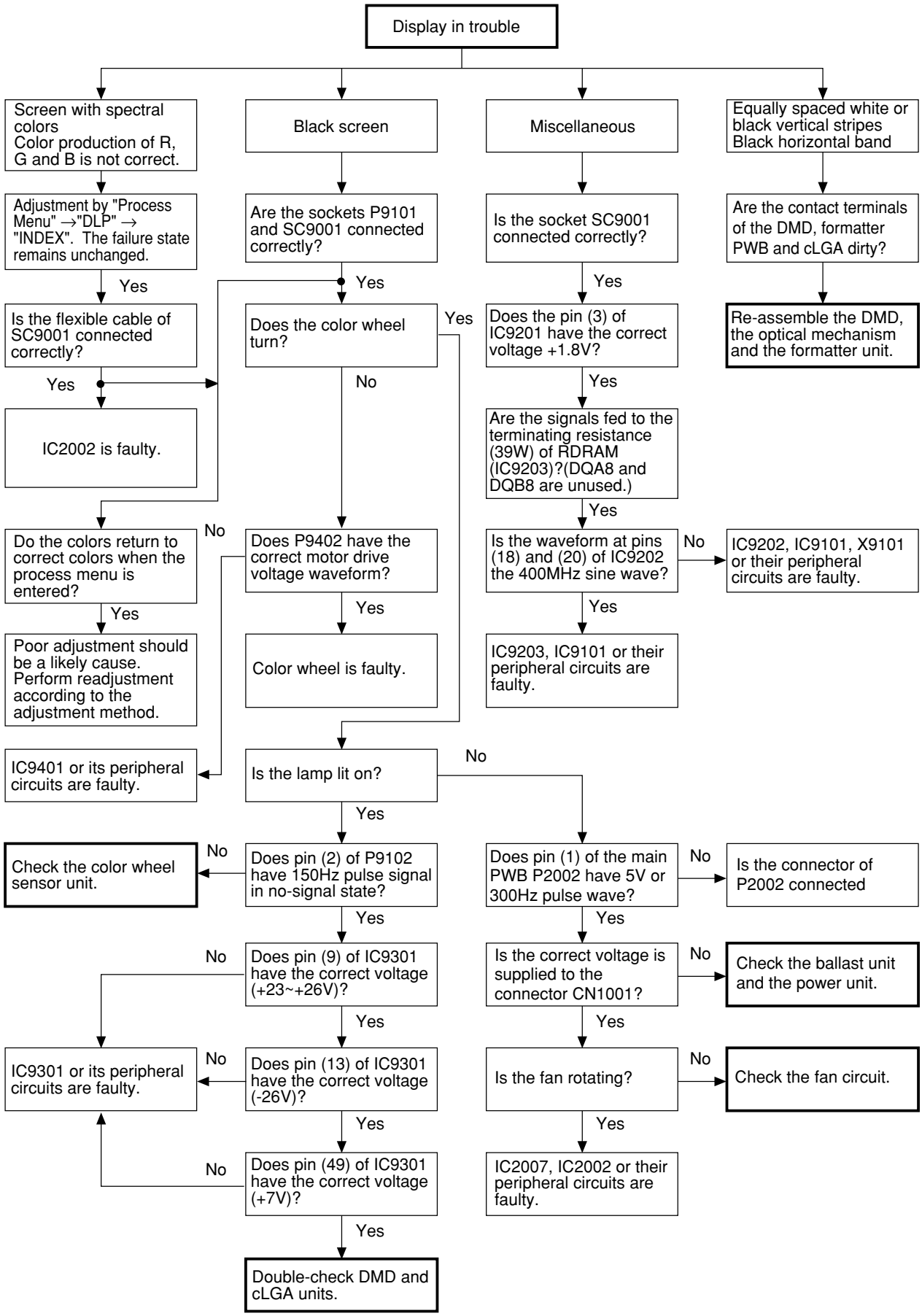
The composite video signal is Y/C-separated by IC3506 (3 Line COM) and the resulting signals are inputted to pins (39) and (41) of IC3105.

The video signal is outputted from color-difference pins (21), (22) and (23) of IC3105.


Check of component DTV input
Input the DTV signal from INPUT 1.
Select INPUT 1 with the keys on the main body or the remote control.
Is picture outputted?
Yes
Is the picture disturbed?
Yes
1
No
End.
No
Is the signal coming to the P6001?
No
Check of the DVI-TAN1 PWB.
Yes
Is the picture signal coming to pins (3), (4) and (5) of IC3102?
No
Check between the P6001 and IC3102.
Yes
Are pins (76), (77) and (78) of IC3102 outputting and the signals inputted to pins (73), (74) and (75)?
No
Check IC3102 and around it.
Yes
3


Checking of Sync Signal
Is the horizontal synchronized signal on pin (6) of IC5001?
No
Yes
Is the vertical synchronized signal on pin (6) of IC5002?
No
Check the PWB of the signal input part.
Yes
Is the synchronized signal is outputted from IC5009, IC5005, IC5006, IC5007 and IC5008?
No
Check each IC and the peripheral circuit of IC.
Yes
Is the vertical synchronized signal on pin (31) of IC6004?
No
Yes
Is the horizontal synchronized signal on pin (30) of IC6004?
No
Check IC6001, IC6002 and IC peripheral circuits.
Yes
Is the vertical synchronized signal on pin (64) of IC6004?
No
Yes
Is the horizontal synchronized signal on pin (66) of IC6004?
No
Failure of IC6004 and IC peripheral circuit.
Yes
Are the timing of both vertical and horizontal synchronized signals correct?
Yes
The sync signal is normal.
End of checking.
No
Is the signal generator (input source) correct?
No
Set the signal source appropriately.
Yes
2
IC8001 and its periphery is defective.

- Formatter Unit Troubleshooting



TECHNISCHE DATEN

Produkttyp	Projector
Modell	XV-Z200U/DT-300/XV-Z200E/XV-Z201E
Videosystem	PAL/PAL 60/PAL-M/PAL-N/SECAM/NTSC 3.58/NTSC 4.43 DTV 480I/480P/720P/1080I/576I/576P
Display-Verfahren	DLP-CHIP, RGB optisches Verschlussverfahren
DLP-Feld	Feldformat: 0,6" Anzeigemethode: Einzel-Bedienungsfeld-Digital Micromirror Device (DMD™) von Texas Instruments Ansteuerungsmethode: Digital Light Processing (DLP™) Anzahl der Punkte: 589.824 Punkte (1.024 [H] × 576 [V])
Linse	1 –1,2 X Zoom-Linse, F1,75 –2,04, f=28,0 –33,5 mm(XV-200U/E), F2.0-2.4, f=16, 9-20.2 (XV-Z201E, DT-300)
Projektionslampe	210 W/168 W SHP-Lampe
Videoeingangssignal	RCA-Stecker: VIDEO (INPUT 4), Gemischtes Video, 1,0 Vp-p, Synch. negativ, 75 Ω terminiert
S-Videoeingangssignal	4-Pin Mini DIN-Stecker (INPUT 3) Y (Luminanz-Signal): 1,0 Vp-p, Synch. negativ, 75 Ω terminiert C (Chrominanz-Signal): Stoß 0,286 Vp-p, 75 Ω terminiert
Komponenten-Eingangssignal (EING. 1)	RCA-Stecker Y: 1,0 Vp-p, Synch. negativ, 75 Ω terminiert P_B: 0,7 Vp-p, 75 Ω terminiert P_R: 0,7 Vp-p, 75 Ω terminiert
Komponenten-Eingangssignal (EING. 2)	29-Pin Steckverbinder DVI-Eingangssignal: Digital 250-1.000 mV 50 Ω Analog 0,7 Vp-p 75 Ω Y: 1,0 Vp-p, Synch. negativ, 75 Ω terminiert P_B: 0,7 Vp-p, 75 Ω terminiert P_R: 0,7 Vp-p, 75 Ω terminiert
Horizontal-Auflösung	520 TV-Zeilen (NTSC 3,58 Eingang)
RGB-Eingangssignal	DVI-I-Anschluss <Digital> Eingangsimpedanz 50 Ω Eingangspegel 250-1000 mV <Analog> Eingangsimpedanz 75 Ω Eingangspegel 0,7 Vp-p <Synchronisationssignal> • Separates Synch./Komposit-Synch. Eingangspegel TTL-Pegel Eingangsimpedanz 1 KΩ • Grün auf Synch. Eingangspegel (Synchronisierungseingang) 0,286Vp-p Eingangsimpedanz 75 Ω
Punktetakt	12–80 MHz
Vertikale Frequenz	43–75 Hz
Horizontale Frequenz	15–70 kHz
Computersteuerungs-Signal	9-Pin D-Sub-Steckanschluß (RS-232C-Eingangs-Port)
Nennspannung	100–240 V Wechselstromspannung
Eingangsspannung	3,2 A
Nennfrequenz	50/60 Hz
Stromaufnahme	285 W
Wärmeabgabe:	1.070 BTU/Stunde
Betriebstemperatur	+5°C bis +35°C
Lagertemperatur	–20°C bis +60°C
Gehäuse	Kunststoff
I/R-Trägerfrequenz	38 kHz
Abmessungen (ca.)	368 × 153,8 × 327 mm (B × H × T) (einschließlich Drehständer) 368 × 118 × 327 mm (B × H × T) (nur Hauptgerät)
Gewicht (ca.)	4,6 kg (einschließlich Drehständer) 4,1 kg (nur Hauptgerät)
Mitgeliefertes Zubehör	Fernbedienung, Zwei AA-Batterien, Netzkabel, 21-Pin RCA- Konvertierungsadapter, Video-Kabel, Anschluß-Adbeckung, Schrauben für die Anschlussabdeckung, Linsenkappe (am Gehäuse befestigt), Bedienungsanleitung
Ersatzteile	Lampeneinheit (Lampe/Gehäusemodul) (BQC-XVZ200++1), Fernbedienung (RRMCGA218WJSA), AA-Batterien, Netzkabel (QACCV4002CEZZ:SEEG/SEI, QACCDA007WJPZ:SEC/SECL, QACCBA012WJPZ:SUK/SRS/SRH/SEEM, QACCLA018WJPZ:SCA/SNZ),21-Pin RCA-Konvertierungsadapter (QSOCZ0361CEZZ:SEEG/SUK), Video-Kabel (QCNWGA001WJZZ), Anschluß-Abdeckung (GCOVAA116WJKB), Schrauben für die Anschlussabdeckung (XBBSN40P10000), Linsenkappe (CCAPHA004WJ01), Bedienungsanleitung (SEC/SECL:TiNS-B005WJZZ (XV-Z200U/E)/ TiNS-B006WJZZ (XV-Z201E, DT-300), SEEG/SUK:TiNS-B007WJZZ (XV-Z200U/E)/ TiNS-B009WJZZ (XV-Z201E, DT-300), SCA/SNZ/SRS/SRH/SEEM/SEI:TiNS-B008WJZZ (XV-200U/E)/TiNS-B010WJZZ (XV-201E, DT-300))

Dieser SHARP-Projektor verwendet einen DMD-Chip. Dieser hochentwickelte Chip beinhaltet 589.824 Pixel. Wie bei allen hochtechnologischen Elektronikgeräten wie großen Fernsehbildschirmen, Videosystemen und Videokameras, gibt es auch hier bestimmte akzeptable Toleranzen, denen das Gerät entsprechen muß.

Änderungen der technischen Daten ohne Ankündigung vorbehalten.

HINWEISE FÜR DAS WARTUNGSPERSONAL

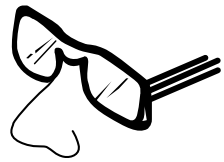
ACHTUNG: UV-STRAHLUNG

Die Beleuchtungsquelle des LCD-Projektors, eine UHP-Lampe, emittiert eine geringe Menge UV-Strahlung.

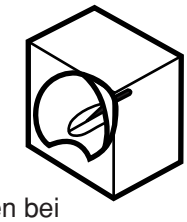
DIREKTE BESTRAHLUNG AUF AUGEN UND HAUT MUSS VERMIEDEN WERDEN.

Zur Gewährleistung der Sicherheit muß folgendes beachtet werden:

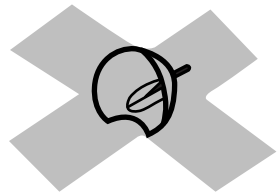
1. Bei Arbeiten am Projektor bei eingeschalteter Lampe und abgenommenem oberen Gehäuse muß unbedingt eine Sonnenbrille getragen werden.



2. Die Lampe darf nicht außerhalb des Lampengehäuses eingeschaltet werden.



3. Betrieb für länger als 2 Stunden bei abgenommenem Gehäuse ist nicht zulässig.



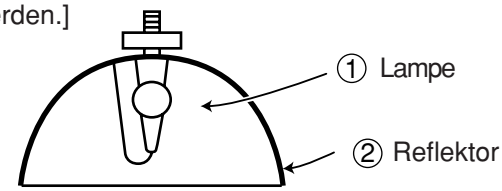
Zur Beachtung bei UV-Strahlung und Mitteldruck-Lampen

1. Vor dem Auswechseln der Lampe muß der Netzstecker gezogen werden.
2. Vor Durchführung von Wartungsarbeiten muß das Gerät eine Stunde abkühlen.
3. Die Lampe darf nur gegen eine der gleichen Art ausgewechselt werden. Typ BQC-XVZ200++1 bemessen für 370V/210W.
4. Die Lampe gibt eine geringe UV-Strahlung ab, daher muß direkter Augenkontakt vermieden werden.
5. Die Mitteldruck-Lampe weist ein Explosionsrisiko auf. Daher müssen die nachstehenden Installationsanweisungen beachtet werden, und die Lampe muß vorsichtig behandelt werden.

■ Auswechseln der Lampe

Hinweis:

Da die Lampe während des Betriebs sehr heiß wird, sollte die Lampe erst ausgewechselt werden, nachdem das Gerät mindestens eine Stunde ausgeschaltet war, damit die Lampe ausreichend abkühlen kann.
Beim Installieren der neuen Lampe muß darauf geachtet werden, die Lampe selbst (Glaskolben) nicht zu berühren. Vielmehr muß die Lampe am Reflektor ② gehalten werden.
[Es darf nur ein Original-Ersatzteil verwendet werden.]



GEFAHR! — Niemals die Spannungsversorgung einschalten, ohne daß eine Lampe vorhanden ist, um elektrische Schläge und Schäden am Gerät zu vermeiden, da der Stabilisator anfangs hohe Spannungen erzeugt.

Da eine geringe Menge UV-Strahlung an der Öffnung zwischen den Lüftern austritt, wird empfohlen, während der Wartungsarbeiten die Abdeckkappe des Zusatzobjektivs an dieser Öffnung anzubringen, um Augen und Haut vor den UV-Strahlen zu schützen.

Vorsichtsmaßregeln für bleifreien Lötzinn

1 Verwendung von bleifreiem Lötzinn

Bei den Platinen für dieses Modells wird bleifreies Lot verwendet. Das Symbol LF kennzeichnet bleifreies Lot und findet sich an den Platinen und in den Wartungshandbüchern. Der Buchstabe hinter LF bezieht sich auf die Art des bleifreien Lots.

Beispiel:

Zeigt bleifreien Lötzinn aus Zinn, Silber und Kupfer an.

2 Bei Reparatur der mit bleifreiem Lötzinn gelöteten Platine immer bleifreien Lötzinn verwenden. Reparatur mit herkömmlichem Lötzinn kann zu Schäden oder Unfällen aufgrund von Rissen führen.

Da der Schmelzpunkt bleifreien Lvtzinns (Sn-Ag-Cu) um 40°C höher als der von Bleidraht-Lötzinn ist, empfehlen wir die Verwendung einer speziellen Lötspitze. Wenn Fragen über den Beschaffung leitfreien Lötzinns oder spezieller Lötspitzen bestehen, wenden Sie sich an unsere Kundendienstvertretung in Ihrem Gebiet.

3 Löten

Da der Schmelzpunkt bleifreien Lötzinns (Sn-Ag-Cu) etwa 220°C beträgt, was um 40°C höher als der von bleihaltigem Lötzinn ist, und außerdem schlechte Löt-Benetzbarkeit aufweist, kann es erforderlich werden, die Lötspitze längere Zeit in Kontakt mit der Platine zu halten. Da die Lötlauge abfliessen kann oder der maximale Hitzewiderstand von Teilen überschritten werden kann, die Lötspitze sofort von der Platine nehmen, sobald eine gute Lötung erzielt ist. Bleifreier Lötzinn enth_lt mehr Zinn, und das Ende der Lötspitze kann leicht angegriffen werden. Immer sicherstellen, dass der Lötkolben nur bei Bedarf eingeschaltet wird.

Wenn ein anderer Typ von Lötzinn an der Lötspitze haften bleibt, verschmilzt er mit dem bleifreien Lötzinn. Die Lötspitze nach jeder Verwendung reinigen.

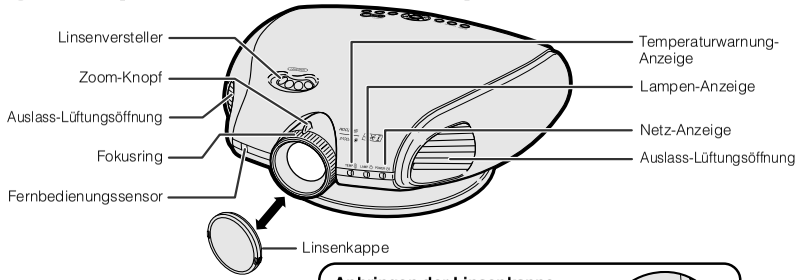
Wenn die Lötspitze bei der Verwendung geschwärzt wird, die Spitze mit Stahlwolle oder feinem Sandpapier abschmirgeln.

Immer beim Austausch von Teilen vorsichtig sein, und die Polaritätsanzeige auf der Platinenbeschriftung beachten.

Bleifreier Lötzinn zur Wartung

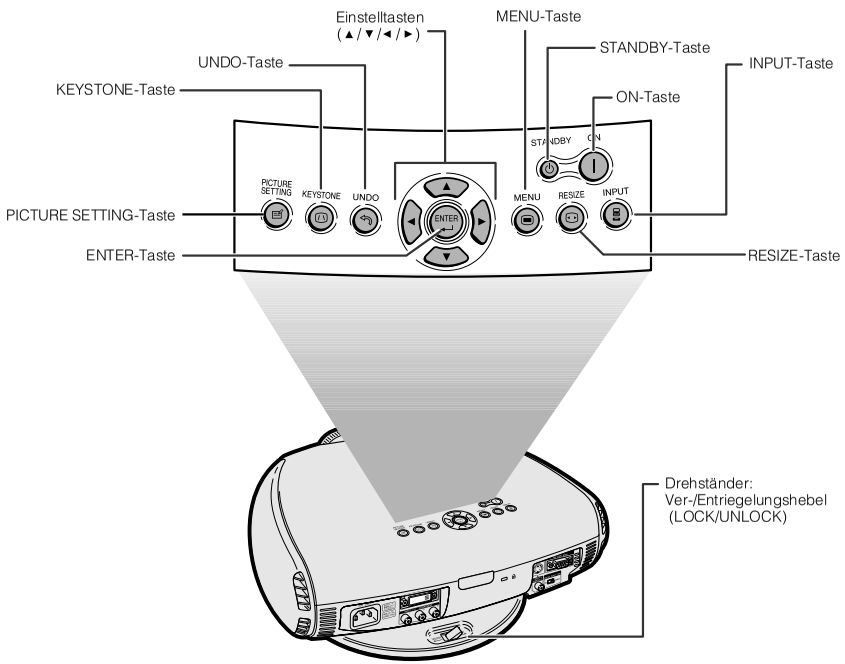
Teile-Nr.	★	Beschreibung		Code
ZHNDAi123250E	J	ϕ0.3mm	250g(1roll)	BL
ZHNDAi126500E	J	ϕ0.6mm	500g(1roll)	BK
ZHNDAi12801KE	J	ϕ1.0mm	1 Rolle	BM

Projektor (Vorder- und Draufsicht)

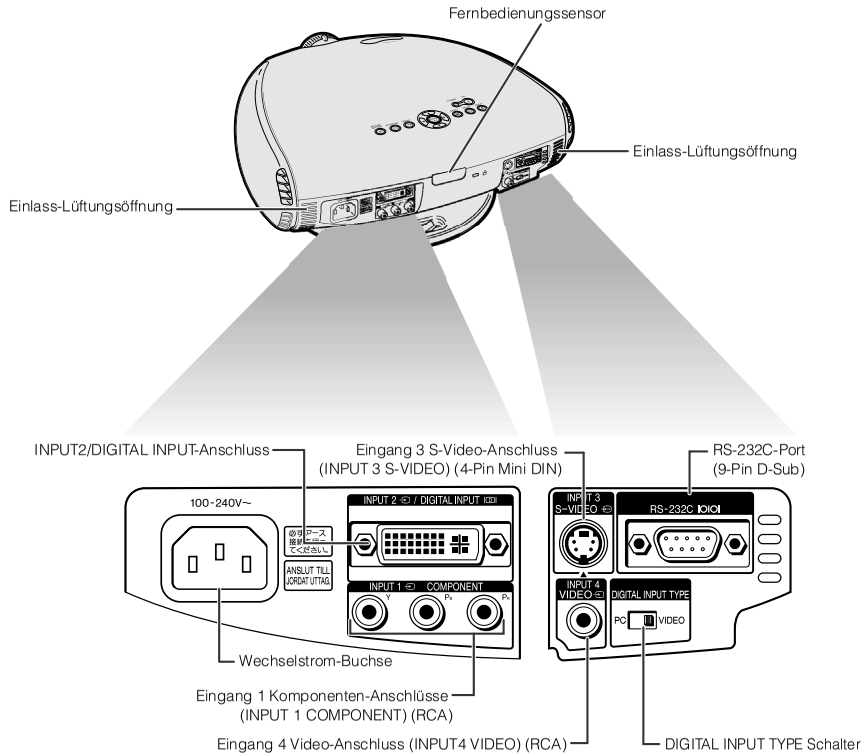


Anbringen der Linsenkappe
Der Objektivdeckel kann mit Hilfe von handelsüblichen Befestigungsbändern (für Mobilfunktelefone, usw.) am Projektor befestigt werden (siehe Abbildung).

Projektor (Seiten- und Rückansicht)

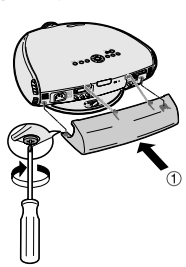


Projektor (Hintersicht)



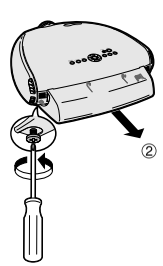
Verwendung der Anschlussabdeckung
Wenn der Projektor auf dem Tisch, hoch angebracht oder an der Decke betrieben wird, verwenden Sie die Anschlussabdeckung (mitgeliefert), um die Anschlusskabel verbergen.

Anbringung der Anschlussabdeckung
① Richten Sie die Abdeckung mit den Laschen am Projektor aus und drücken Sie in Pfeilrichtung auf die Anschlussabdeckung.
② Ziehen Sie die beiden Schrauben unten am Projektor an.



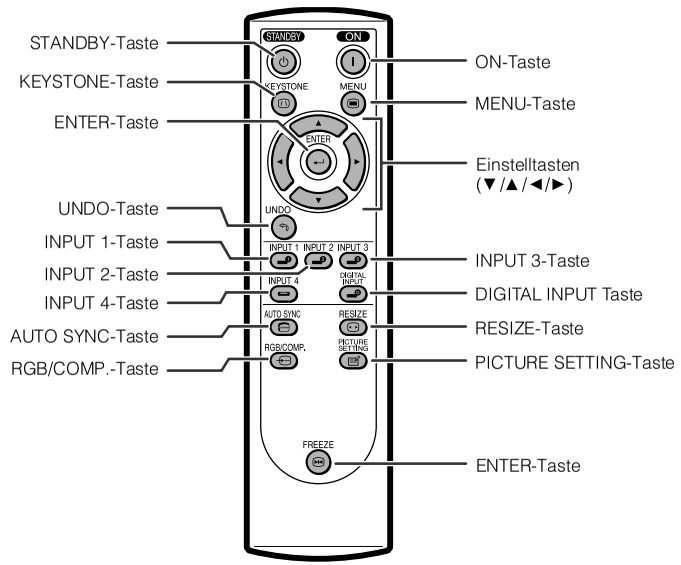
② Schrauben anziehen

Abnehmen der Anschlussabdeckung
① Lösen Sie die Schrauben unten am Projektor.
② Heben Sie die Anschlussabdeckung an und ziehen Sie sie in Pfeilrichtung ab.

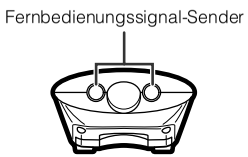


① Schrauben lösen

Fernbedienung (Vordersicht)



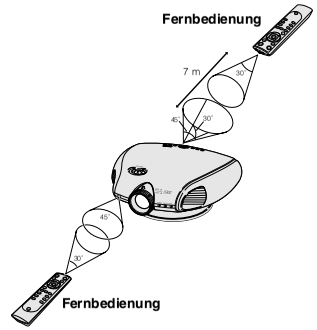
Fernbedienung (Ansicht von oben)



Fernbedienungsbetrieb

Reichweite der Fernbedienung

■ **Der Projektor kann mittels der Fernbedienung innerhalb der in der Abbildung gezeigten Bereiche gesteuert werden.**



Hinweis

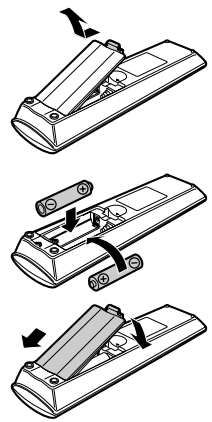
- Das Signal von der Fernbedienung kann für eine einfache Bedienung von der Bildwand reflektiert werden. Die tatsächliche Reichweite des Signals kann je nach Bildwandmaterial unterschiedlich sein.

Bei Verwendung der Fernbedienung:

- Nicht fallen lassen, keiner Feuchtigkeit oder hoher Temperatur aussetzen.
- Die Fernbedienung funktioniert unter Umständen nicht unter einer Fluoreszenzlampe. Unter diesen Umständen den Projektor von der Fluoreszenzlampe entfernt aufstellen.

Einsetzen der Batterien

Die Batterien (zwei Batterien der Größe "AA") sind in der Packung enthalten.



1 Ziehen Sie die Lasche an der Abdeckung herunter und entfernen Sie die Abdeckung in Pfeilrichtung.

2 Die beiliegenden Batterien einlegen.

- Die Batterien einlegen und sicherstellen, dass die Pole mit der Markierung ⊕ und ⊖ im Batteriefach übereinstimmen.

3 Führen Sie die untere Lasche der Abdeckung in die Öffnung ein und senken Sie die Abdeckung bis sie einrastet.

Falsche Verwendung der Batterien kann eine Leckage oder Explosion zur Folge haben. Bitte befolgen Sie die unten stehenden Vorsichtsmaßnahmen.

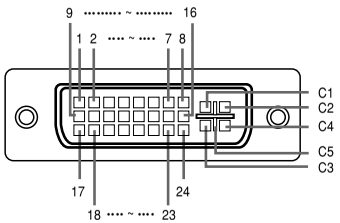
⚠ Achtung

- Die Batterien einlegen und sicherstellen, dass die Pole mit der Markierung ⊕ und ⊖ im Batteriefach übereinstimmen.
- Batterien unterschiedlichen Typs haben unterschiedliche Eigenschaften, verwenden Sie deshalb keine Batterien unterschiedlichen Typs zusammen.
- Verwenden Sie keine neuen und alten Batterien zusammen.
  Dadurch könnte die Lebensdauer der neuen Batterien reduziert werden oder die alten Batterien auslaufen.
- Leere Batterien aus der Fernbedienung herausnehmen, da sie ansonsten auslaufen könnten.
  Aus den Batterien ausgelaufene Batterieflüssigkeit ist für Ihre Haut schädlich, wischen Sie die Batterien deshalb unbedingt zuerst ab und nehmen Sie sie dann mit einem Tuch heraus.

- Die diesem Projektor beiliegenden Batterien können unter Umständen, je nach Handhabung, nach kurzer Zeit aufgebraucht sein. Sicherstellen, dass die Batterien, wenn sie erschöpft sind, so bald wie möglich durch neue Batterien ersetzt werden.
- Nehmen Sie die Batterien heraus, wenn die Fernbedienung lange nicht benutzt wird.

Verbindungs-Pin-Zuweisungen

DVI-I (INPUT 5 / DIGITAL INPUT)-Anschluss: 29-pol. Stecker



• DVI-Digital-Eingang

Pin Nr.	Signal	Pin Nr.	Signal
1	T.M.D.S.-Daten 2-	16	Zündkerzenerkennung
2	T.M.D.S.-Daten 2+	17	T.M.D.S.-Daten 0-
3	T.M.D.S.-Daten 2-Schutz	18	T.M.D.S.-Daten 0+
4	Nicht angeschlossen	19	T.M.D.S.-Daten 0-Schutz
5	Nicht angeschlossen	20	Nicht angeschlossen
6	DDC-Takt	21	Nicht angeschlossen
7	DDC-Daten	22	T.M.D.S.-Taktschutz
8	Nicht angeschlossen	23	T.M.D.S.-Takt+
9	T.M.D.S.-Daten 1-	24	T.M.D.S.-Takt-
10	T.M.D.S.-Daten 1+	C1	Nicht angeschlossen
11	T.M.D.S.-Daten 1-Schutz	C2	Nicht angeschlossen
12	Nicht angeschlossen	C3	Nicht angeschlossen
13	Nicht angeschlossen	C4	Nicht angeschlossen
14	Stromversorgung + 5 V	C5	Erde
15	Erde		

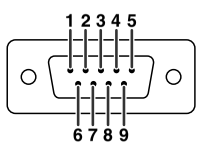
• DVI-Analog-RGB-Eingang

Pin Nr.	Signal	Pin Nr.	Signal
1	Nicht angeschlossen	16	Zündkerzenerkennung
2	Nicht angeschlossen	17	Nicht angeschlossen
3	Nicht angeschlossen	18	Nicht angeschlossen
4	Nicht angeschlossen	19	Nicht angeschlossen
5	Nicht angeschlossen	20	Nicht angeschlossen
6	DDC-Takt	21	Nicht angeschlossen
7	DDC-Daten	22	Nicht angeschlossen
8	Vertikales Synch.	23	Nicht angeschlossen
9	Nicht angeschlossen	24	Nicht angeschlossen
10	Nicht angeschlossen	C1	Analog-Eingang Rot
11	Nicht angeschlossen	C2	Analog-Eingang Grün
12	Nicht angeschlossen	C3	Analog-Eingang Blau
13	Nicht angeschlossen	C4	Horizontales Synch.
14	Stromversorgung + 5 V	C5	Erde
15	Erde		

• DVI-Analog-Komponenten-Eingang

Pin Nr.	Signal	Pin Nr.	Signal
1	Nicht angeschlossen	16	Nicht angeschlossen
2	Nicht angeschlossen	17	Nicht angeschlossen
3	Nicht angeschlossen	18	Nicht angeschlossen
4	Nicht angeschlossen	19	Nicht angeschlossen
5	Nicht angeschlossen	20	Nicht angeschlossen
6	Nicht angeschlossen	21	Nicht angeschlossen
7	Nicht angeschlossen	22	Nicht angeschlossen
8	Nicht angeschlossen	23	Nicht angeschlossen
9	Nicht angeschlossen	24	Nicht angeschlossen
10	Nicht angeschlossen	C1	Analog-Eingang Pr/Cr
11	Nicht angeschlossen	C2	Analog-Eingang Y
12	Nicht angeschlossen	C3	Analog-Eingang Pb/Cb
13	Nicht angeschlossen	C4	Nicht angeschlossen
14	Nicht angeschlossen	C5	Erde
15	Erde		

RS-232C-Port: 9-Pin D-Sub-Stecker des DIN-D-Sub RS-232C-Kabels



Pin Nr.	Signal	Name	E/A	Referenz
1				Nicht angeschlossen
2	RD	Daten empfangen	Eingang	An internen Schaltkreis angeschlossen
3	SD	Daten senden	Ausgang	An internen Schaltkreis angeschlossen
4		Reserviert		An internen Schaltkreis angeschlossen
5	SG	Signalerdung		An internen Schaltkreis angeschlossen
6		Reserviert		An internen Schaltkreis angeschlossen
7		Reserviert		An internen Schaltkreis angeschlossen
8		Reserviert		An internen Schaltkreis angeschlossen
9				Nicht angeschlossen

(RS-232C)-Spezifikationen und Befehlseinstellungen

PC-Kontrolle

Wenn ein RS-232C-Kabel (Nullmodem, Kreuztyp, separat im Handel erhältlich) an den Projektor angeschlossen wird, kann der Computer zur Bedienung des Projektors verwendet werden. (Siehe Seite 23 hinsichtlich der Einzelheiten.)

Kommunikationsbedingungen

Legen Sie die seriellen Porteinstellungen des Computers identisch denen der Tabelle fest.
Signalformat: Konform mit RS-232C-Standard.
Baud-Rate: 9.600 Bps
Datenlänge: 8 Bit
Paritätsbit: Keine
Stopbit: 1 Bit
Flusssteuerung: Keine

Grundformat

Computerbefehle werden in folgender Reihenfolge gesendet: Befehl, Parameter und Rückcode. Nachdem der Projektor den Computerbefehl ausgeführt hat, sendet er einen Antwortcode an den Computer.

Befehlsformat

C1	C2	C3	C4	P1	P2	P3	P4	Rückcode (0DH)

Befehl 4-stellig — Parameter 4-stellig

Antwortcodeformat

Normalantwort

O	K	Rückcode (0DH)

Problemantwort (Kommunikationsfehler oder inkorrekter Befehl)

E	R	R	Rückcode (0DH)

Info

- Wenn mehr als ein Code gesendet wird, ist jeder Befehl erst zu senden, nachdem der OK-Antwortcode für den vorherigen vom Projektor gesendeten Befehl bestätigt wurde.

Hinweis

- Während der Nutzung der Computersteuerungsfunktion des Projektors kann der Projektorstatus vom Computer nicht gelesen werden. Daher sollten Sie den Status durch Versendung der Anzeigebefehle für jedes Einstellungsmenü verifizieren und den Status via Bildschirmanzeige überprüfen.

Befehle

Beispiel:

- Beim Einschalten.

Computer → Projektor

P	O	W	R	_	_	_	1	↵

→

←

O	K	↵

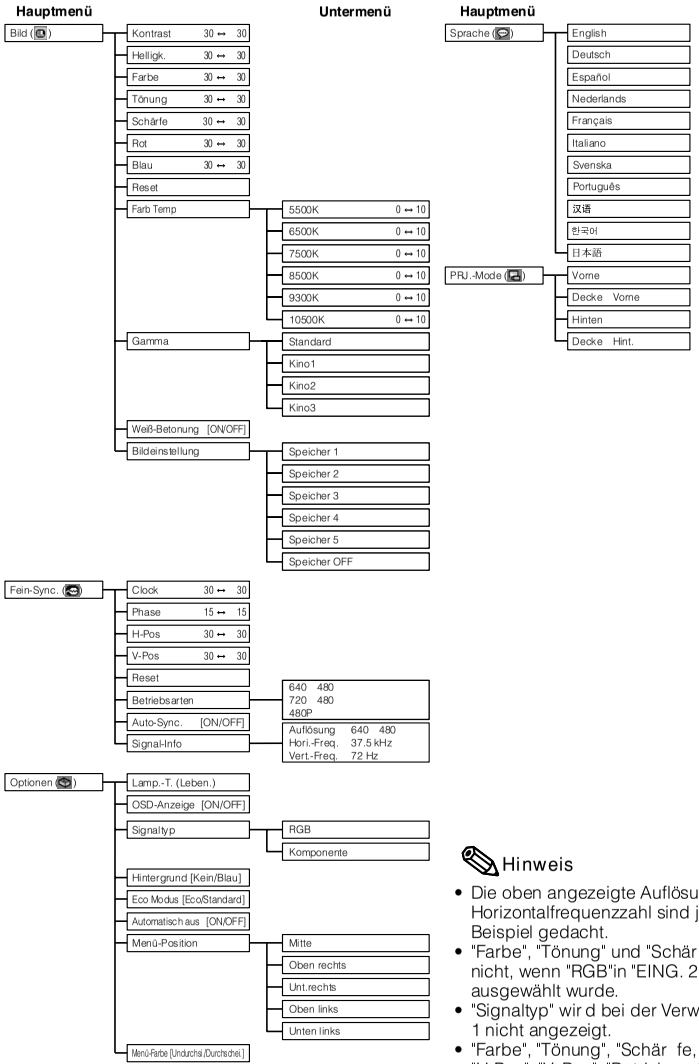
	STEUERUNGSGEGENSTAND	BEFEHL	PARAMETER	RÜCKKEHRCODE
TASTEN & FERNBEDIENUNGS-TASTEN	GERÄT EIN	POWR	_ _ _ 1	OK ODER ERR
	STANDBY	POWR	_ _ _ 0	OK ODER ERR
	Eingang 1 (Komponente 1)	IVED	_ _ _ 1	OK ODER ERR
	Eingang 2 (Komponente 2)	IVED	_ _ _ 2	OK ODER ERR
	Eingang 3 (S-VIDEO)	IVED	_ _ _ 3	OK ODER ERR
	Eingang 4 (VIDEO)	IVED	_ _ _ 4	OK ODER ERR
	DIGITALEINGANG-MODUS	IVED	_ _ _ 5	OK ODER ERR

Hinweis

- Wenn ein Unterstrich (_) in der Parameter-Tabelle angezeigt wird, geben Sie bitte eine Leerstelle ein.

Punkte im Menübalken

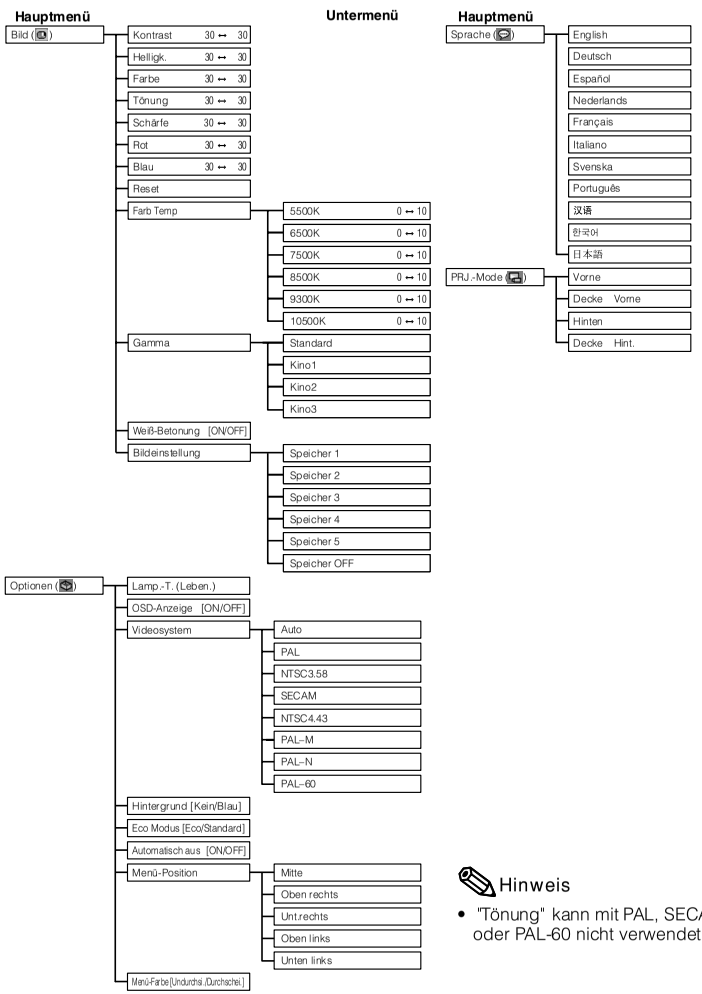
■ EINGANG 1 / 2 / DIGITALEINGANG Betriebsart



Hinweis

- Die oben angezeigte Auflösung, Vertikal- und Horizontalfrequenzzahl sind jeweils nur als Beispiel gedacht.
- "Farbe", "Tönung" und "Schär fe" erscheinen nicht, wenn "RGB"in "EING. 2"-Modus ausgewählt wurde.
- "Signaltyp" wir d bei der Verwendung von EING. 1 nicht angezeigt.
- "Farbe", "Tönung", "Schär fe, "Clock", "Phase", "H-Pos", "V-Pos", "Betriebsar ten" und "Auto-Sync." können im DIGITALEINGANG-Modus nicht verwendet werden.
- "Clock" "Phase" und "Auto-Sync." können im Komponenten-Betrieb nicht verwendet werden.

■ EINGANG 3 / 4-Betriebsart



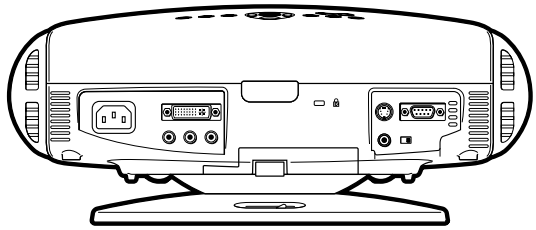
Hinweis

- "Tönung" kann mit PAL, SECAM, PAL-M, PAL-N oder PAL-60 nicht verwendet werden.

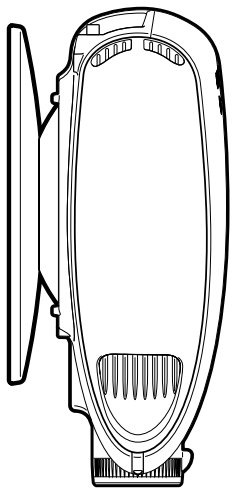
ABMESSUNGEN

Einheit: mm

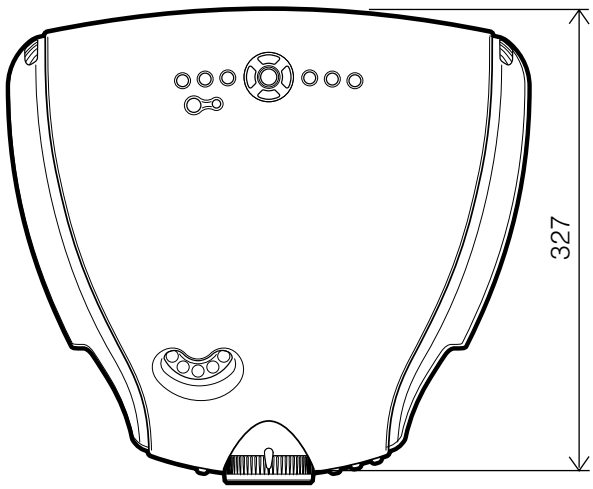
Ansicht der Rückseite



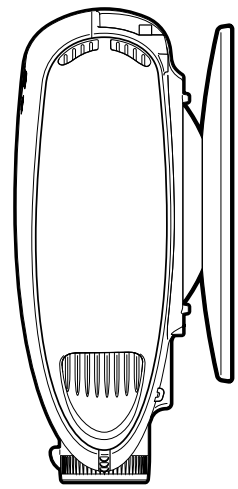
Seitenansicht



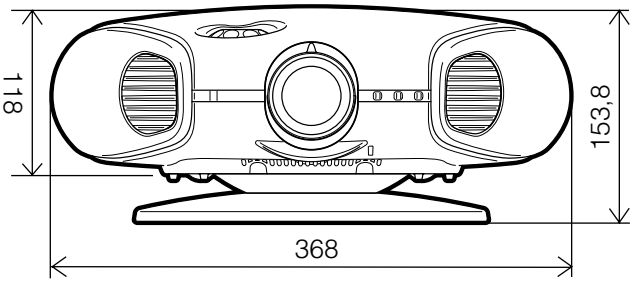
Ansicht von oben



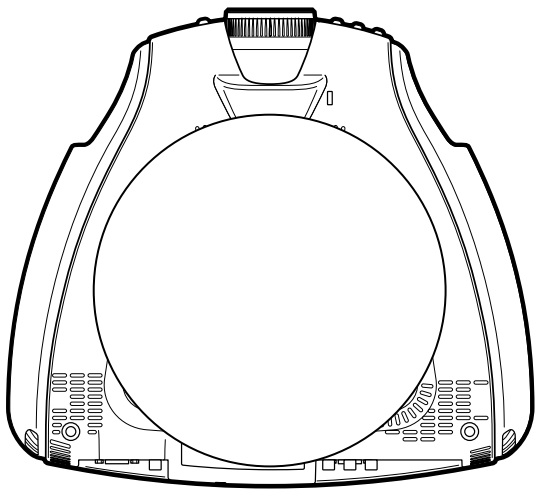
Seitenansicht



Ansicht von vorne



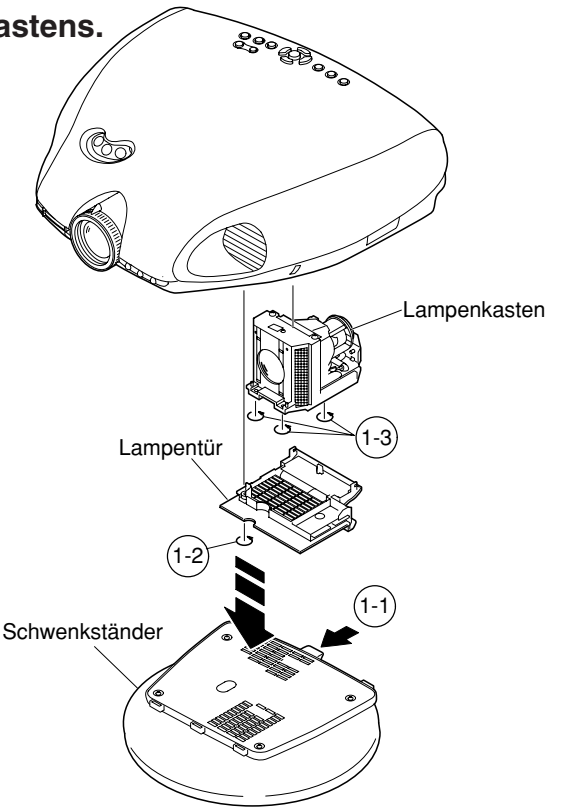
Ansicht von unten



ENTFERNEN DER HAUPTTEILE

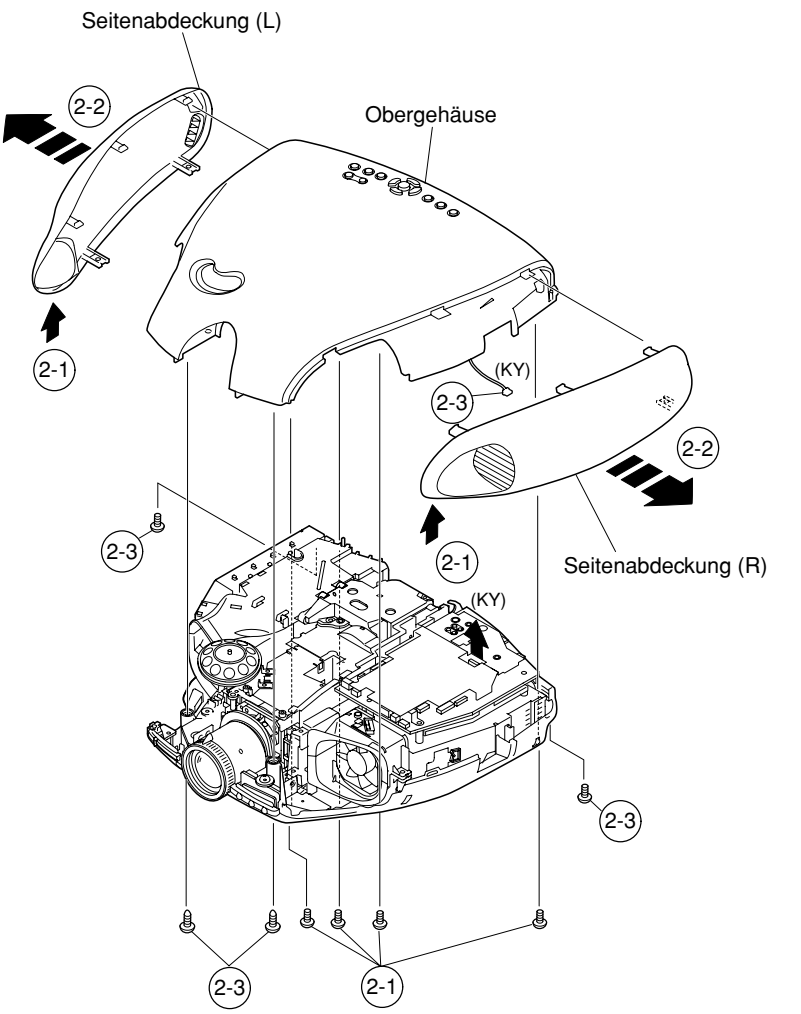
1. Entfernen des Schwenkständers und des Lampenkastens.

1-1. Den Sperrhebel entfernen und den Schwenkständer entfernen.
1-2. 1 Schraube entfernen, und die Lampentür entfernen.
1-3. 3 Schrauben lösen, und den Lampenkasten herausnehmen.



2. Seitenabdeckungen und Obergehäuse entfernen.

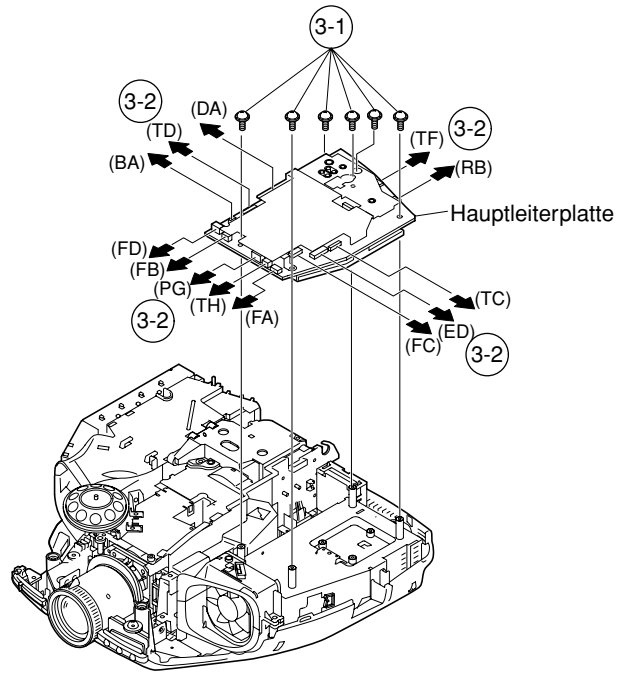
2-1. 4 Schrauben von der Seitenabdeckung entfernen. Die Seitenabdeckung vorne unten zum Lösen der Seitenabdeckung drücken.
2-2. Die Seitenabdeckung in Pfeilrichtung ziehen und entfernen.
2-3. 4 Schrauben vom oberen Gehäuse entfernen. Das obere Gehäuse vom Objektiv lösen, leicht das obere Gehäuse andrücken, und die KY-Leitung abtrennen. Jetzt das obere Gehäuse abheben.



3. Hauptleiterplatte entfernen.

3-1. 6 Schrauben entfernen.

3-2. Jeden Steckverbinder an der Hauptleiterplatte entfernen.



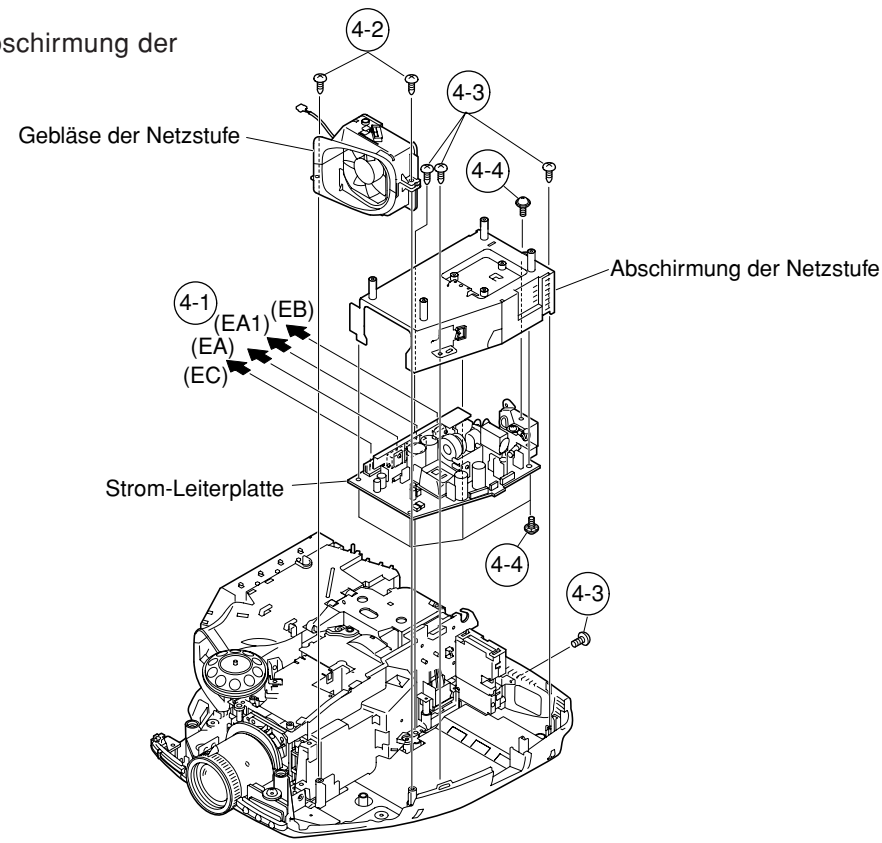
4. Die Netzstufe entfernen.

4-1. Jeden Steckverbinder an der Strom-Leiterplatte entfernen.

4-2. 2 Schrauben entfernen, und das Gebläse der Netzstufe entfernen.

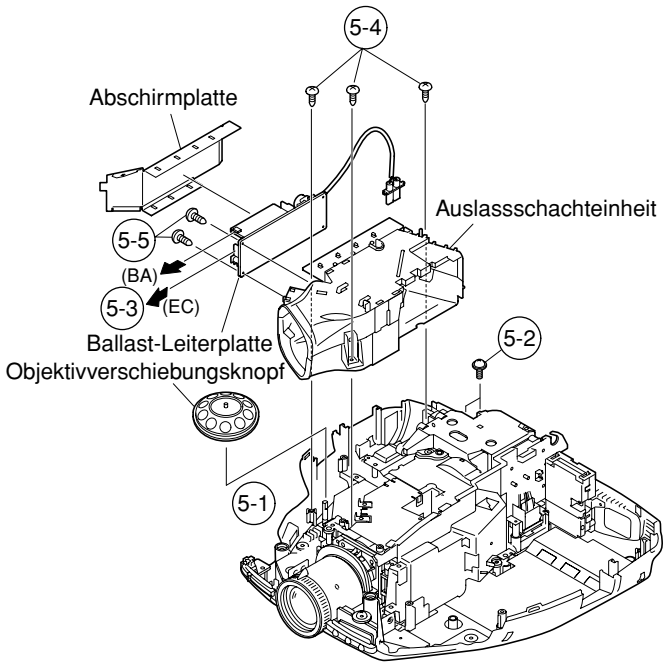
4-3. 3 Schrauben entfernen, und die Netzstufen-Baugruppe herausnehmen.

4-4. 5 Schrauben entfernen, und die Abschirmung der Netzstufe entfernen.



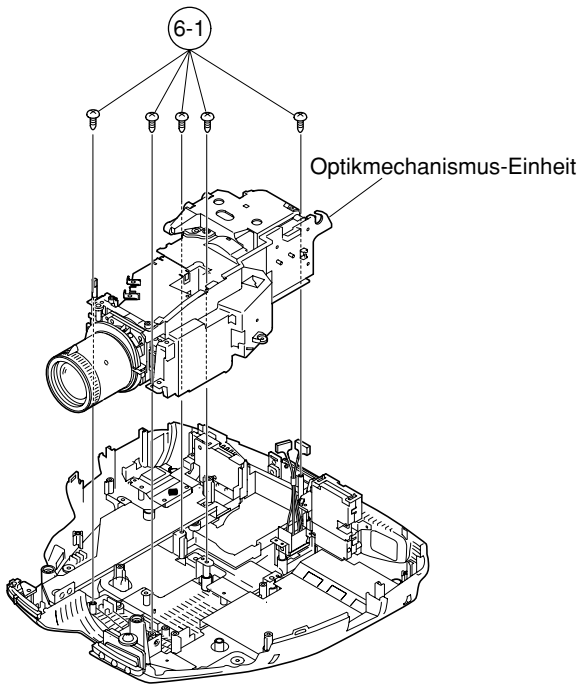
5. Die Ballasteinheit entfernen.

5-1. Den Objektivverschiebungsknopf entfernen.
5-2. Die 2 Schrauben entfernen, und die Ballastfassung entfernen.
5-3. Die 3 Schrauben entfernen, und die Ballastfassung entfernen.
5-4. Die Abschirmplatte entfernen, und die 2 Buchsen an der Ballast-Leiterplatte entfernen.
5-5. 2 Schrauben entfernen, und die Ballast-Leiterplatte entfernen.



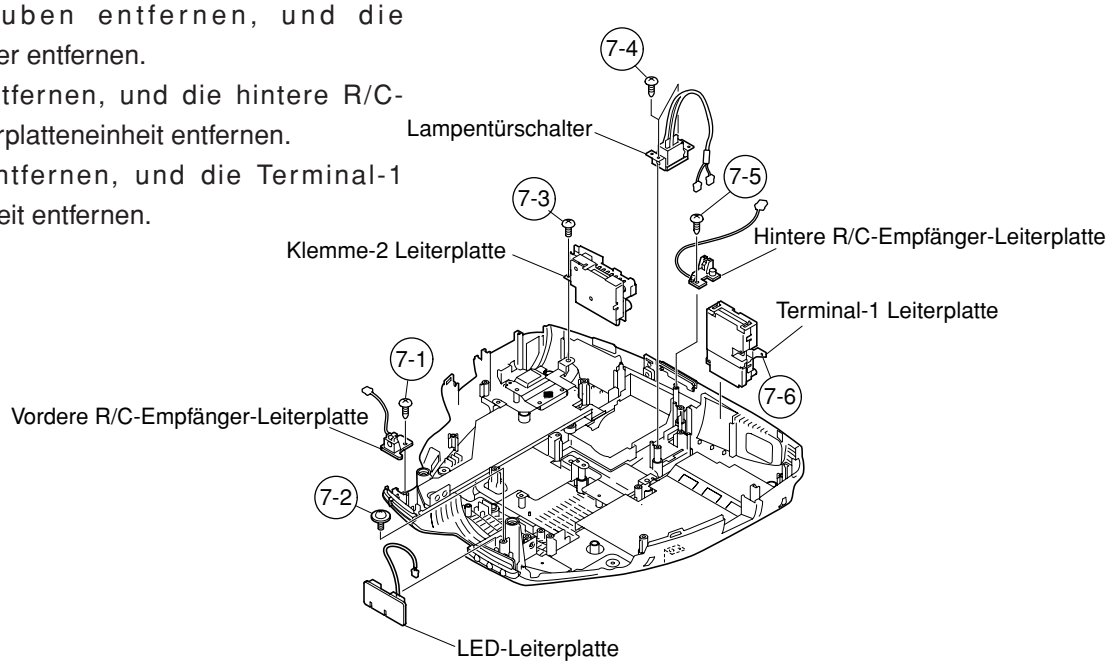
6. Entfernen der Optikmechanismus-Einheit.

6-1. 5 Schrauben entfernen, und die Optikmechanismus-Einheit entfernen.



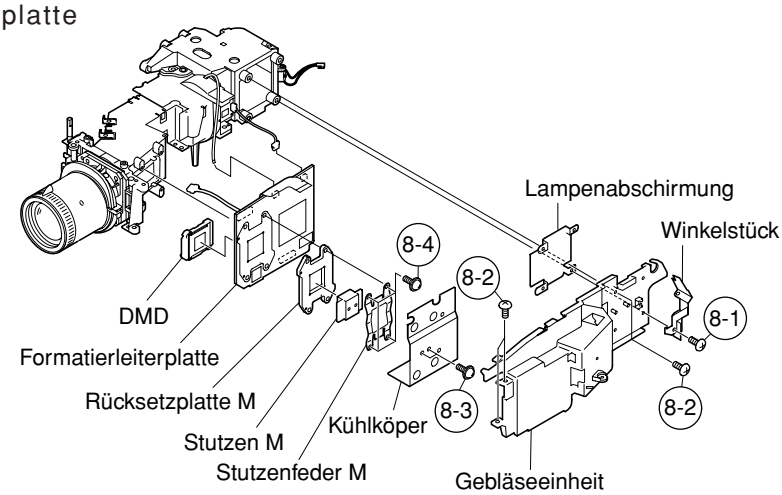
7. Entfernen aller anderen Leiterplatten.

7-1. 1 Schraube entfernen, und die vordere R/C-Empfänger-Leiterplatteneinheit entfernen.
7-2. 1 Schraube entfernen, und die LED-Leiterplatteneinheit entfernen.
7-3. 1 Schraube entfernen, und eine Klemme-2 Leiterplatteneinheit entfernen.
7-4. Die 2 Schrauben entfernen, und die Lampentürschalter entfernen.
7-5. 1 Schraube entfernen, und die hintere R/C-Empfänger-Leiterplatteneinheit entfernen.
7-6. 1 Schraube entfernen, und die Terminal-1 Leiterplatteneinheit entfernen.



8. Entfernen der Formatierleiterplatte.

8-1. 1 Schraube entfernen, und das Winkelstück entfernen.
8-2. 3 Schrauben entfernen, und die Gebläseeinheit entfernen.
8-3. 2 Schrauben entfernen, und die Hitzewanne entfernen.
8-4. 4 Schrauben entfernen. Die R_cksetzplatte M, Stutzenplatte M, Stutzenfeder M und 2 Steckverbinder von der Formatierleiterplatte entfernen. Danach die Formatierleiterplatte entfernen.



Vorsichtsma_regeln beim Ersetzen des DMD-Chips

Hinweis: Darauf achten, nicht Staub und Fingerabdrücke auf das Deckglas des DMD-Chips und die Prismaoberfläche der Optikengine kommen zu lassen.

1. 4 Schrauben schrittweise von den Gegenseiten festziehen, um die Rücksetzplatte M, Stutzenfeder M, und Stutzen M zu befestigen. Zur Ausführung dieses Schritts den Schattenteil der Stutzenfeder M mit dem Finger an die Formatierleiterplatte zu drücken.
2. Wenn ein Schatten auf dem Projektionsbildschirm erscheint wie in Abb. 1 gezeigt, 2 Schrauben auf der Spiegeleinstellplatte lösen und die Platte zur Justierung des Beleuchtungsbereichs des DMD-Chips bewegen.

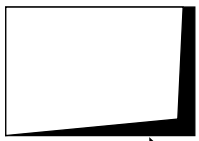
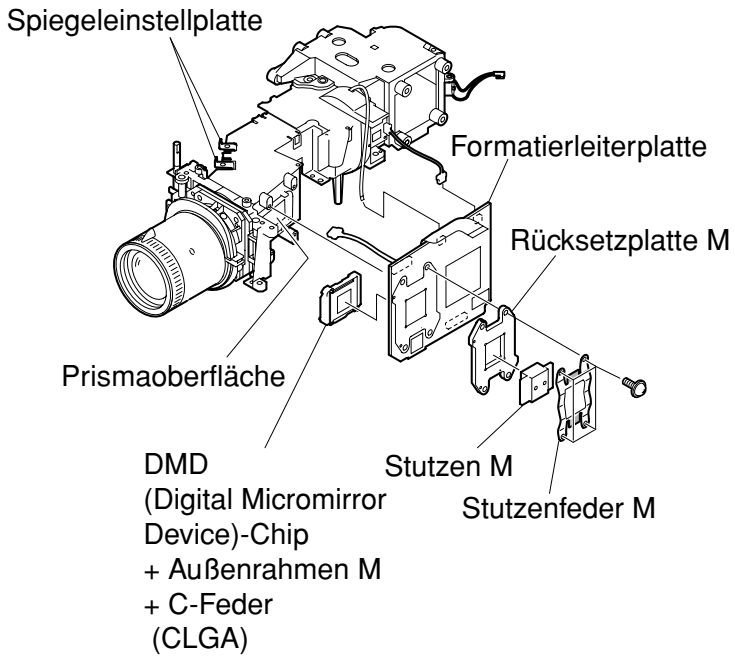


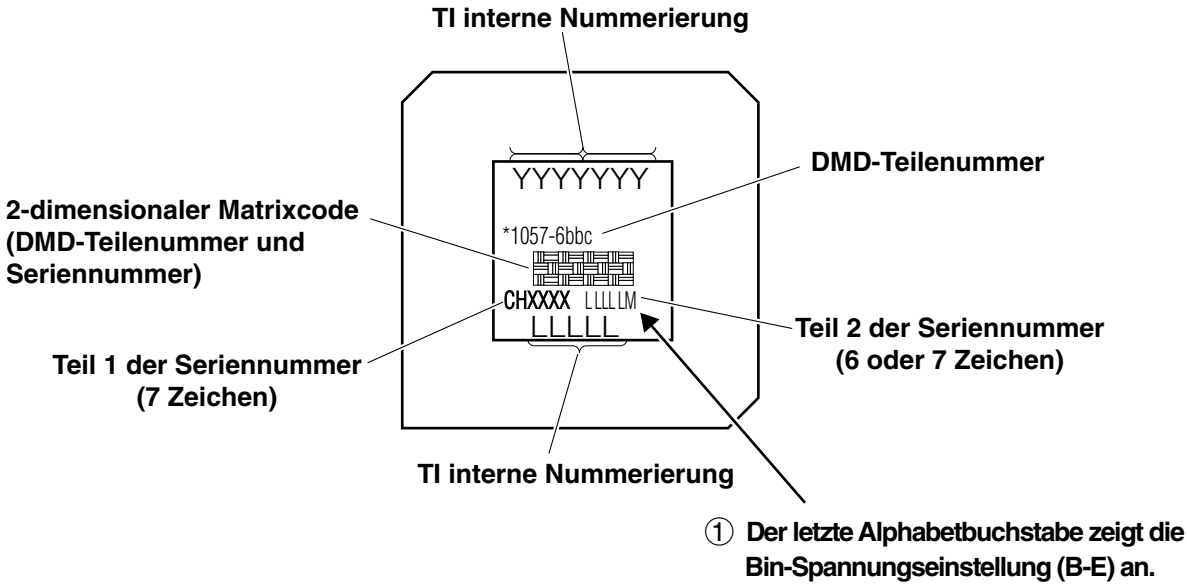
Abb.1

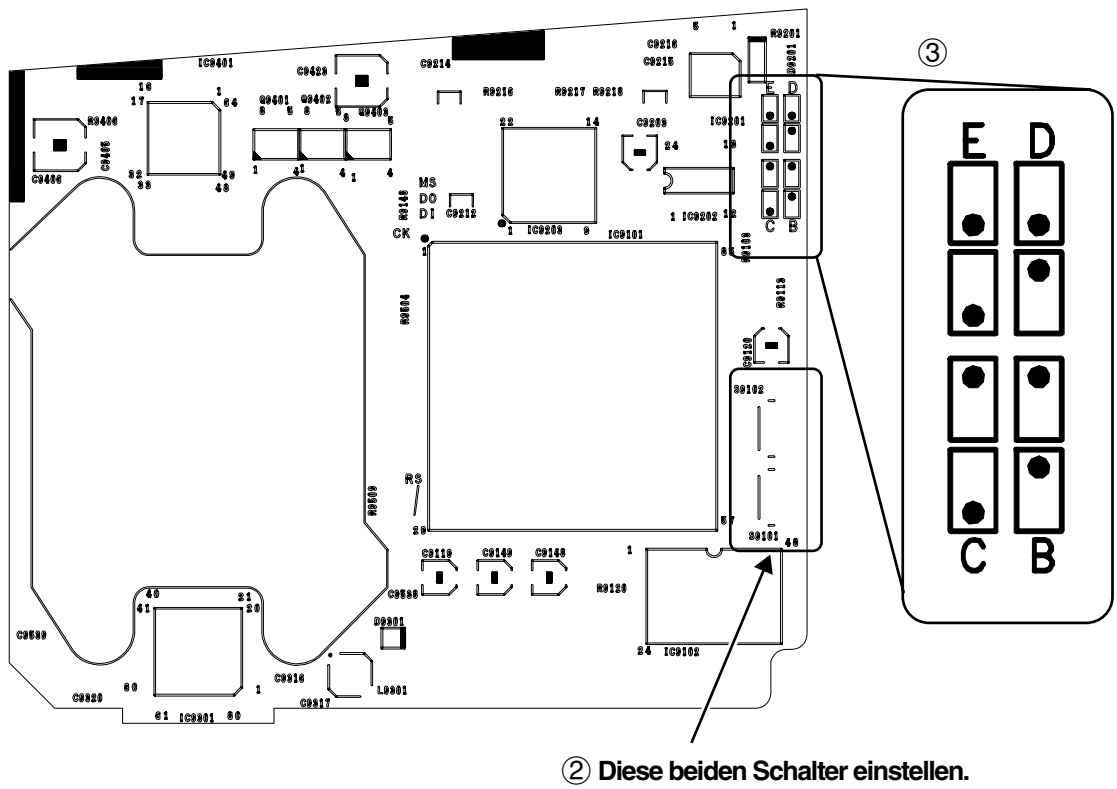


*** Vorsichtsmaßregeln bei Einrichtung der DMD (Digital Micromirror Device)-Einheit**

Vor dem Anschließen der Formatierleiterplatte an der Optikengine die folgenden Schritte ausführen. Die Spannungsrangmarkierung am DMD selber beachten. Unter
bezug auf diese Markierung die DIP-Schalter an der Formatierleiterplatte einstellen. Dann diese Leiterplatte an die Optikengine anschließen. Falsche Einstellungenbeeinträchtigen die Systemleistung.

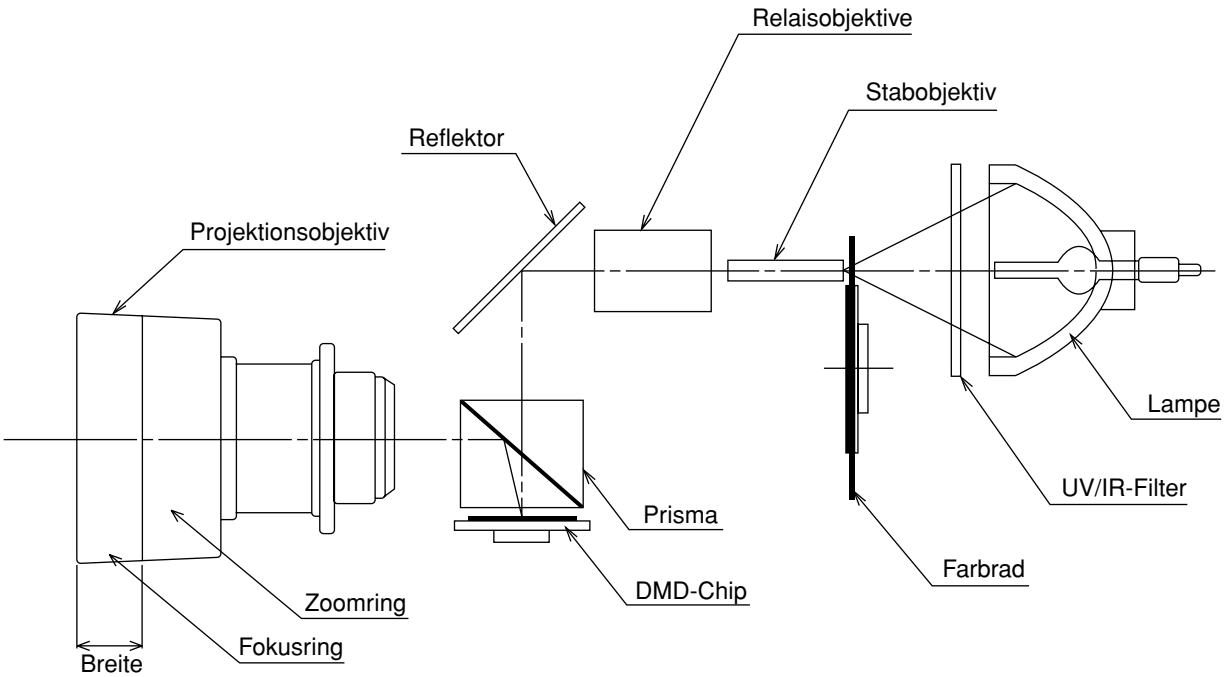
DMD-Einstellung: Das letzte in ① gezeigte Alphabetzeichen pn, und die beiden in ② gezeigten Schalter entsprechend den in ③ gezeigten Konfigurationen einstellen.
Die Schalter der Formatierleiterplatte entsprechend der Bin-Spannung wie auf der Rückseite des DMD gezeigt einstellen.





BESCHREIBUNG DER OPTIK-EINHEIT

<Anordnung>



Gegenstand	Funktion
Lampe	Lichtquelle. Gleichstromgetriebene Hochdruck-Quecksilberdampflampe.
UV/IR-Filter	Dient zur Absorption von Ultraviolett- und Infrarotstrahlung.
Farbrad	Dient zum Durchlassen von Quelllicht durch den Farbfilter und Aufspaltung in Farbanteile R, G und B.
Stabobjektiv	Dient zur Erzeugung gleichmäßiger Lichtstrahlen.
Relaisobjektive	Used to collect the light from the rod lens into the DMD chip.
Reflektor	Dient zum Reflektieren des Lichts von den Relaisobjektiven gegen den DMD-Chip.
Prisma	Verwendet zum Einführen von Licht vom Reflektor über die effektive Oberfläche des DMD-Chips. Wenn der Microspiegel geneigt wird (EIN) wie spezifiziert, wird das reflektierte Licht über das Projektionsobjektiv geführt.
DMD-Chip	Dient zum Ein- und Ausschalten des Microspiegels in Reaktion auf das Verhältnis der Farbkomponenten bei jedem Bildpunkt und dadurch zur entsprechenden Reflektion des einfallenden Lichts.
Projektionsobjektiv	Dient zum Vergrößern des Lichts vom DMD-Chip und zur Projektion des Lichts auf dem Bildschirm.

Unterscheidung zwischen Objektiven mit langer und kurzer Brennweite

- Objektiv mit langer Brennweite: Fokusringbreite: ca. 18 mm ▶ XV-Z200U, XV-Z200E
- Objektiv mit kurzer Brennweite: Fokusringbreite: ca. 27 mm ▶ DT-300, XV-Z201E

Vorsicht bei Reparatur mit abgenommenem Obergehäuse

Zur Reparatur dieses Geräts ohne Oberabdeckung vorher den linken Seitenkörper abnehmen. (Da die Ablufthitze in den Bereich um das Gerät geht und der Temperatursensor sie erkennt, wird der TEMP-Fehler gegeben, und die Lampe erlischt.)

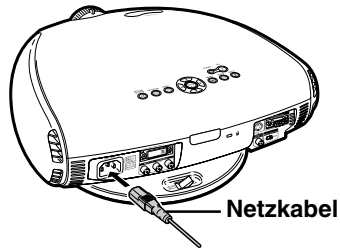
RÜCKSTELLEN DES LAMPENBETRIEBSZEIT-TIMERS

Rückstellung des Lampen-Timers

Den Lampen-Timer nach dem Lampenaustausch zurückzustellen.

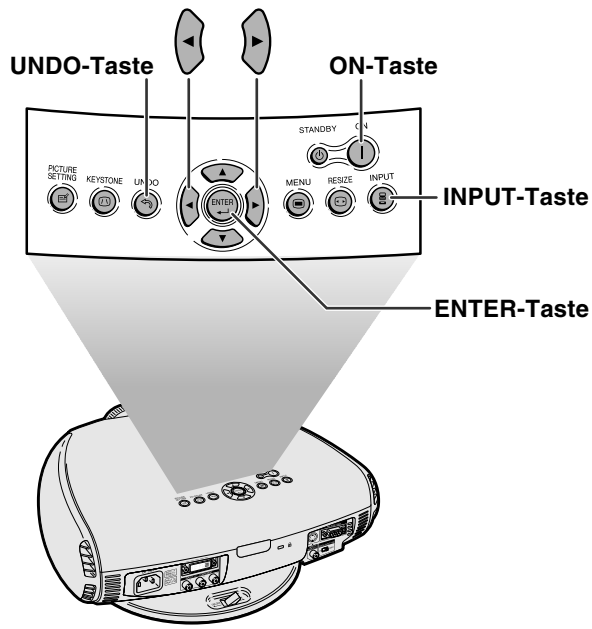
1 Das Netzkabel wieder einstecken.

- Bestätigen Sie, dass die Netz-Anzeige rot leuchtet.



2 Den Lampen-Timer zurückstellen.

- In dieser Reihenfolge ON, INPUT, UNDO, ◄, ENTER und ► drücken. Dann ON drücken.
- „LAMP. 0000H“ wird auf dem Projektionsbild angezeigt.

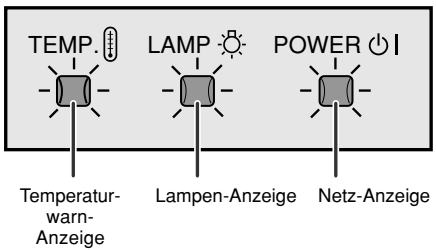


Info

- Stellen Sie sicher, dass Sie den Lampen-Timer nur nach dem Austausch der Lampe zurücksetzen. Wenn Sie den Lampen-Timer zurücksetzen und dieselbe Lampe weiterhin verwenden, könnte die Lampe beschädigt werden oder explodieren.

Wartungsanzeigen

- **Die Warnleuchten auf dem Projektor weisen auf Fehlfunktionen im Projektor hin.**
- **Falls ein Problem auftritt, leuchtet entweder die Temperaturwarn-Anzeige oder die Lampen-Anzeige rot auf und der Projektor wird in den Standby-Modus geschaltet. Nachdem der Projektor in den Standby-Modus geschaltet worden ist, den unten aufgeführten Schritten folgen.**



Über die Lampen-Anzeige

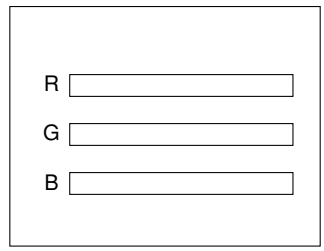
- Die restliche Lebensdauer der Lampe sinkt auf 0 %, wenn sie ungefähr 4.000 Stunden im "Eco-Modus" oder ungefähr 3.000 Stunden im "Standard-Modus" verwendet worden ist.
- Wenn die restliche Lebensdauer der Lampe auf 5 % oder weniger absinkt, wird "" (gelb) auf dem Bildschirm angezeigt. Wenn der Prozentsatz 0% wird, ändert "" auf "" (rot), worauf die Lampe automatisch ausgeschaltet und danach der Projektor automatisch in den Standby-Modus geschaltet wird. Gleichzeitig leuchtet die Lampen-Anzeige rot auf.
- Wenn Sie zum vierten Mal versucht haben, den Projektor einzuschalten, ohne dass die Lampe ausgetauscht wurde, kann der Projektor nicht mehr eingeschaltet werden.

Über die Temperaturwarn-Anzeige

Wenn die Temperatur im Inneren des Projektors aufgrund blockierter Lüftungsöffnungen oder wegen Problemen bei der Aufstellung ansteigt, leuchtet "TEMP." in der unteren linken Ecke des Bildes auf. Wenn die Temperatur weiter ansteigt, schaltet sich die Lampe aus und die Temperaturwarn-Anzeige blinkt; der Kühlventilator dreht sich für weitere 90 Sekunden und anschließend wird der Projektor in den Standby-Modus geschaltet. Nachdem "TEMP." angezeigt wird, unbedingt die folgenden Maßnahmen durchführen.

Wartungsanzeige			Symptom	Problem	Mögliche Abhilfe
	Normal	Unnormal			
Temperatur-warn-Anzeige	Aus	Rot ein/ Bereitschaft	Die Temperatur im Inneren des Gerätes ist zu hoch.	• Lüftungsöffnungen blockiert.	• Den Projektor an einem besser belüfteten Ort aufstellen.
				• Kühlventilator beschädigt • Interne Schaltkreise beschädigt • Lüftungsöffnungen verstopft	• Den Projektor einem von Sharp autorisierten Händler für Projektoren oder dem Kundendienst zur Reparatur geben.
Lampen-Anzeige	Grün ein Grün blinkt, wenn die Lampe aufgewärmt wird.	Rot ein	Die Lampe muss ausgetauscht werden.	• Restliche Lebensdauer der Lampe sinkt auf 5% oder weniger ab.	• Lüftungsöffnungen. • Den Projektor einem von Sharp autorisierten Händler für Projektoren oder dem Kundendienst zur Reparatur geben. • Beim Austausch der Lampe bitte die nötige Vorsicht walten lassen.
		Rot ein/ Bereitschaft	Die Lampe leuchtet nicht.	• Ausgebrannte Lampe • Lampen-Schaltkreis beschädigt	
Netz-Anzeige	Grün ein / Rot ein	Aus	Die Stromversorgung ist nicht eingeschaltet.	• Die Abdeckung der Lampaeneinheit ist geöffnet.	• Die Abdeckung sicher befestigen. • Wenn die Stromversorgung nicht eingeschaltet wird, obwohl die Abdeckung der Lampeneinheit ordnungsgemäß eingebaut wurde, nehmen Sie Kontakt mit einem von Sharp autorisierten Händler für Projektoren oder dem Kundendienst in Ihrer Nähe auf.

ELEKTRISCHE EINSTELLUNG

Nr.	Einstellpunkt	Einstellbedingungen	Einstellverfahren
1	**Initialisieren von EEPROM**	1. DieBetriebsstromversorgung einschalten (die Lampe leuchtet auf), und das System 15 Minuten lang warmlaufen lassen.	1. Die folgende Einstellung ausführen. Das Fernbedienungsteil verwenden oder S2002 drücken, um auf Prozessmodus zu schalten, und SS2 im SS-Menü ausführen.
2	**Einstellung von CW-Index**	1. Gradationsmuster von RGB eingeben. (SVGA60Hz oder XGA) 2. Die folgende Gruppe und Gegenstand wählen. Gruppe: DLP Gegenstand: INDEX DELAY wählen.	1. Gegenstand wählen und Einstellungen vornehmen, so dass die Lampengradationsmuster R, G und B glatt und ohne Rauschen sind. 
3-1	**R-Helligkeit/R-Kontrast (manuelle oder automatische Einstellung)**	1. Gruppe: AD Gegenstand: R-BRIGHT (Schwarzpegel) R-CONTRAST (Weißpegel) 2. Das Fenstermustersignal mit einem Anteil von 91% (0,64 Vs-s) R-Signal und 0% Pegel. (Prozess/Gamma-Interaktion) (SVGA oder XGA) Eingang 2 RGB Eingang	1. Das 0%-Fenstermuster beobachten. 2. Auf dem Bildschirm mit den fehlenden Stellen (roter heller Punkt in der Mitte des Bildschirms) die R-Hell-Einstellung justieren, bis der ganz schwarze Bildschirm zum ersten Mal bitfrei wird. 3. Das 91%-Fenstermuster beobachten. 4. Auf dem Bildschirm mit den fehlenden Bits die R-Kontrast-Einstellung justieren, bis der ganz schwarze Bildschirm zum ersten Mal bitfrei wird.
3-2	**G-Helligkeit/G-Kontrast (manuelle oder automatische Einstellung)**	1. Gruppe: AD Gegenstand: G-BRIGHT (Schwarzpegel) G-CONTRAST (Weißpegel) 2. Das Fenstermustersignal mit einem Anteil von 91% (0,64 Vs-s) G-Signal und 0% Pegel. (Prozess/Gamma-Interaktion) (SVGA oder XGA) Eingang 2 RGB Eingang	1. Das 0%-Fenstermuster beobachten. 2. Auf dem Bildschirm mit den fehlenden Bits die G-Hell-Einstellung justieren, bis der ganz schwarze Bildschirm zum ersten Mal bitfrei wird. 3. Das 91%-Fenstermuster beobachten. 4. Auf dem Bildschirm mit den fehlenden Bits die G-Kontrast-Einstellung justieren, bis der ganz schwarze Bildschirm zum ersten Mal bitfrei wird.
3-3	**B-Helligkeit/B-Kontrast (manuelle oder automatische Einstellung)**	1. Gruppe: AD Gegenstand: B-BRIGHT (Schwarzpegel) B-CONTRAST (Weißpegel) 2. Das Fenstermustersignal mit einem Anteil von 91% (0,64 Vs-s) B-Signal und 0% Pegel. (Prozess/Gamma-Interaktion) (SVGA oder XGA) Eingang 2 RGB Eingang	1. Das 0%-Fenstermuster beobachten. 2. Auf dem Bildschirm mit den fehlenden Bits die B-Hell-Einstellung justieren, bis der ganz schwarze Bildschirm zum ersten Mal bitfrei wird. 3. Das 91%-Fenstermuster beobachten. 4. Auf dem Bildschirm mit den fehlenden Bits die B-Kontrast-Einstellung justieren, bis der ganz schwarze Bildschirm zum ersten Mal bitfrei wird.

Nr.	Einstellpunkt	Einstellbedingungen	Einstellverfahren
4-1	**DTV-Helligkeit/ Kontrast-Einstellung**	1. Gruppe: DTV Gegenstand:BRIGHT (Schwarzpegel) CONTRAST (Weißpegel)	1. Den festen Wert pr_fen. Kontrast: 5 Helligkeit: 55
4-2	**DTV-Helligkeit/ Kontrast (manuelle oder automatische Einstellung)**	1. Das 480P 100%/0% Schwarz/Weiß-Fenster-Mustersignal anlegen. 2. Gruppe: DTV Gegenstand: R-BRIGHT (Schwarzpegel) R-CONTRAST (Weißpegel) (Prozess/Gamma-Interaktion) Eingang 2-Farb-Differenz Eingang	1. Das 0%-Fenstermuster beobachten. 2. Auf dem Bildschirm mit den fehlenden Bits die B-Hell-Einstellung justieren, bis der ganz schwarze Bildschirm zum ersten Mal bitfrei wird. 3. Das 100%-Weißfenstermuster beobachten. 4. Auf dem Bildschirm mit den fehlenden Bits die Kontrast-Einstellung justieren, bis der ganz schwarze Bildschirm zum ersten Mal bitfrei wird.
4-3	**DTV-Helligkeit/ Kontrast (manuelle oder automatische Einstellung)**	1. Das 480P 100%/0% Schwarz/Weiß-Fenster-Mustersignal anlegen. 2. Gruppe: DTV Gegenstand: G-BRIGHT (Schwarzpegel) G-CONTRAST (Weißpegel) (Prozess/Gamma-Interaktion) Eingang 2-Farb-Differenz Eingang	1. Das 0%-Fenstermuster beobachten. 2. Auf dem Bildschirm mit den fehlenden Bits die B-Hell-Einstellung justieren, bis der ganz schwarze Bildschirm zum ersten Mal bitfrei wird. 3. Das 100%-Weißfenstermuster beobachten. 4. Auf dem Bildschirm mit den fehlenden Bits die Kontrast-Einstellung justieren, bis der ganz schwarze Bildschirm zum ersten Mal bitfrei wird.
4-4	**DTV-Helligkeit/ Kontrast (manuelle oder automatische Einstellung)**	1. Das 480P 100%/0% Schwarz/Weiß-Fenster-Mustersignal anlegen. 2. Gruppe: DTV Gegenstand: B-BRIGHT (Schwarzpegel) B-CONTRAST (Weißpegel) (Prozess/Gamma-Interaktion) Eingang 2-Farb-Differenz Eingang	1. Das 0%-Fenstermuster beobachten. 2. Auf dem Bildschirm mit den fehlenden Bits die B-Hell-Einstellung justieren, bis der ganz schwarze Bildschirm zum ersten Mal bitfrei wird. 3. Das 100%-Weißfenstermuster beobachten. 4. Auf dem Bildschirm mit den fehlenden Bits die Kontrast-Einstellung justieren, bis der ganz schwarze Bildschirm zum ersten Mal bitfrei wird.
5	**DTV-Farbton**	1. Gruppe: DTV Gegenstand: Farbton	1. Den festen Wert prüfen. Farbton: 8
6	**DTV-Farbsättigungs-pegel**	1. Gruppe: DTV Gegenstand: Farbe	1. Den festen Wert prüfen. Farbe: -6

<table>
<tr><th>Nr.</th><th>Einstellpunkt</th><th>Einstellbedingungen</th><th>Einstellverfahren</th></tr>
<tr><td>7</td><td>DVD-Helligkeit/ Kontrast-Einstellung</td><td>1. Gruppe: DVD
Gegenstand:BRIGHT
(Schwarzpegel)
CONTRAST
(Weißpegel)</td><td>1. Den festen Wert pr_fen.
Kontrast: 5
Helligkeit: 55</td></tr>
<tr><td>8</td><td>DVD-Farbton</td><td>1. Gruppe: DVD
Gegenstand: Farbton</td><td>1. Den festen Wert pr_fen.
Farbton: 4</td></tr>
<tr><td>9</td><td>DTV-Farbsättigungs-pegel</td><td>1. Gruppe: DVD
Gegenstand: Farbe</td><td>1. Den festen Wert pr_fen.
Farbe: 8</td></tr>
<tr><td>10</td><td>Video-Helligkeit/ Kontrast-Einstellung</td><td>1. Gruppe: VIDEO
Gegenstand:BRIGHT
(Schwarzpegel)
CONTRAST
(Weißpegel)</td><td>1. Den festen Wert pr_fen.
Kontrast: 5
Helligkeit: 55</td></tr>
<tr><td>11</td><td>VIDEO-Farbton</td><td>1. Gruppe: VIDEO
Gegenstand: N-Farbton
P-Farbton
S-Farbton</td><td>1. Die festen Werte prüfen.
N-Farbton: 8
P-Farbton: 4
S-Farbton: 4</td></tr>
<tr><td>12</td><td>VIDEO-Farbsättigungs-pegel</td><td>1. Gruppe: VIDEO
Gegenstand: N-Farbe
P-Farbe
S-Farbe</td><td>1. Die festen Werte prüfen.
N-Farbe: 7
P-Farbe: 4
S-Farbe: 7</td></tr>
<tr><td>13</td><td>DVD-Weißabgleich (automatische Einstellung)</td><td>1. Das XGA 75%-Grauskalensignal einspeisen.
2. Gruppe: PIXEL
Gegenstand: R-GAIN (R)
B-GAIN (R)
Eingang 2</td><td>1. Den Weißabgleich durch Steuerung von R-GAIN und B-GAIN einstellen. (x=296 und y=325 einstellen.)</td></tr>
<tr><td>14</td><td>Werkseitige Einstellungen</td><td></td><td>1. Die folgenden Einstellungen vornehmen.
<table><tr><th>Ziel</th><th>Prozesseinstellung</th><th>Fernbedienungseinstellung</th></tr><tr><td>Europa</td><td>SS3</td><td>Werkseitige Einstellung 3</td></tr><tr><td>Nordmerika</td><td>SS4</td><td>Werkseitige Einstellung 4</td></tr></table></td></tr>
</table>

• Eingabe des Einstellungsprozess-Modus

Es gibt die folgenden beiden Methoden.

- S2002 an der Hauptleiterplatte drücken.
- Die folgenden Tasten der Reihe nach drücken:
  Einst. auf→Einst. auf→Einst. ab.→Einst. ab.→Einst. rechts→Einst. links→Eingabe

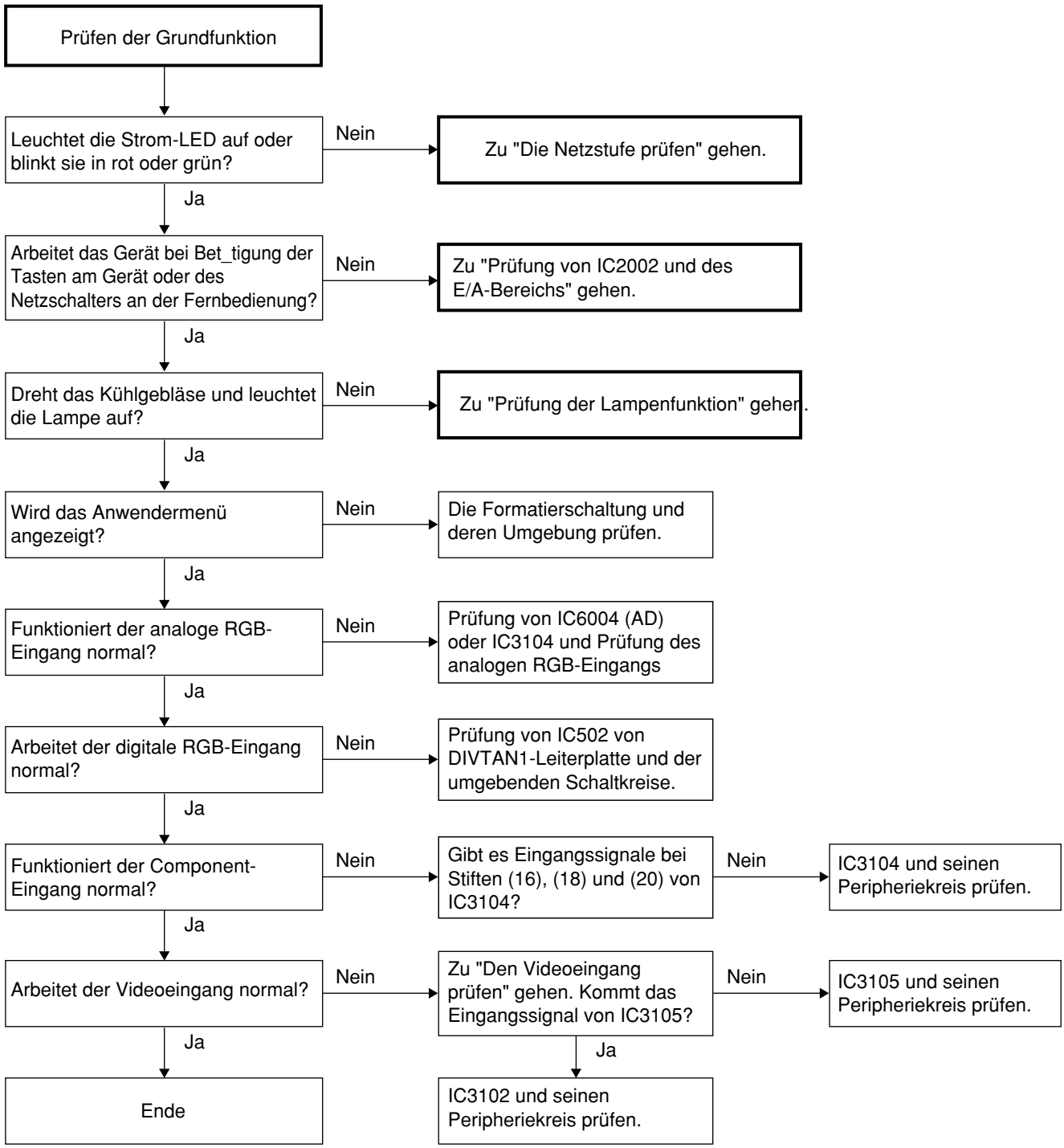
• Einstellungsmodus-Prozessmenü

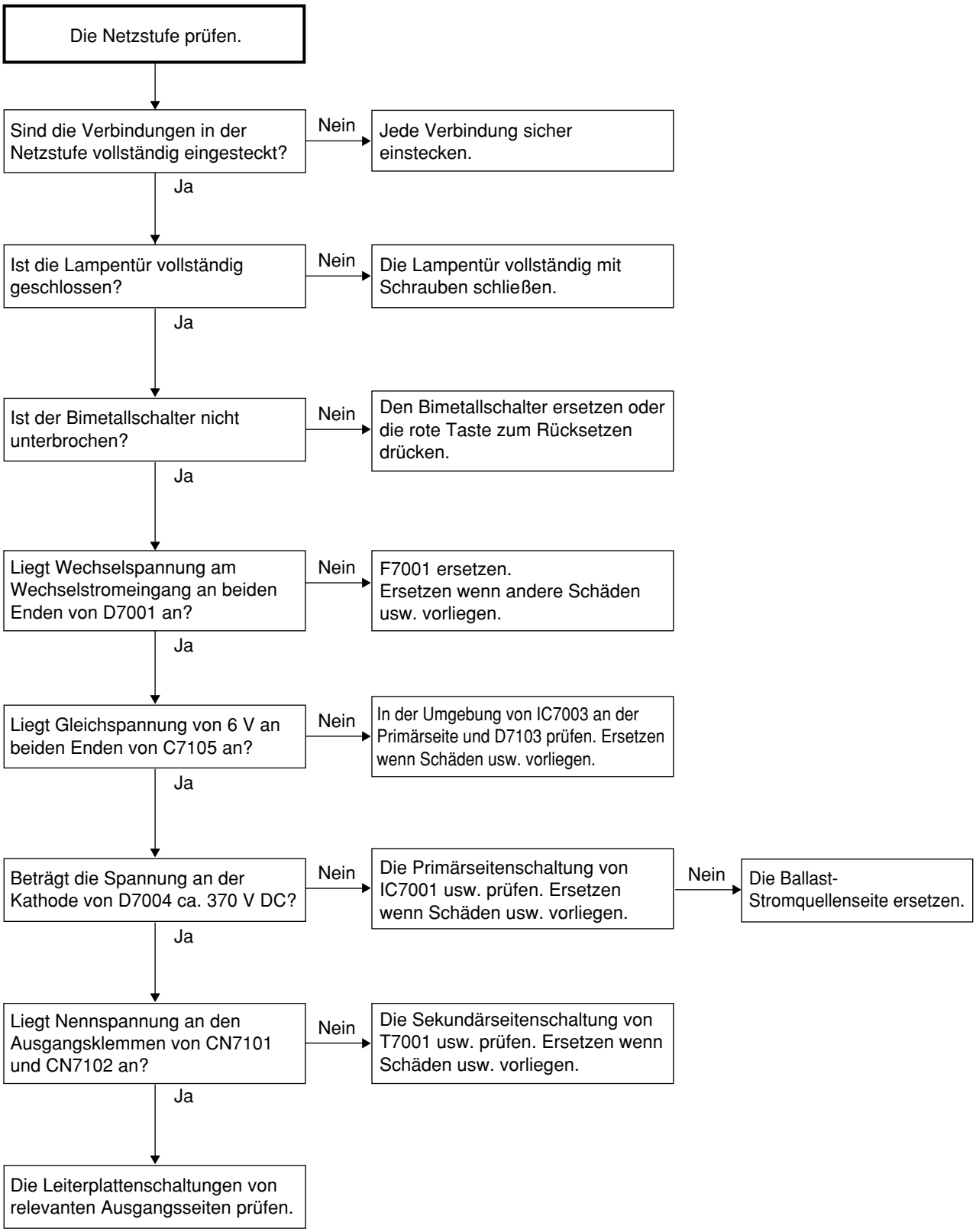
	Gruppe	Gegenstand
1st layer	DTV	VERSION
	DVD	SS
	VIDEO	TEMP
	AD	OPTION
	DLP	PATTERN
	VIDEO1	LAMP
	PIXEL	LINE
	REDESTA	EXIT

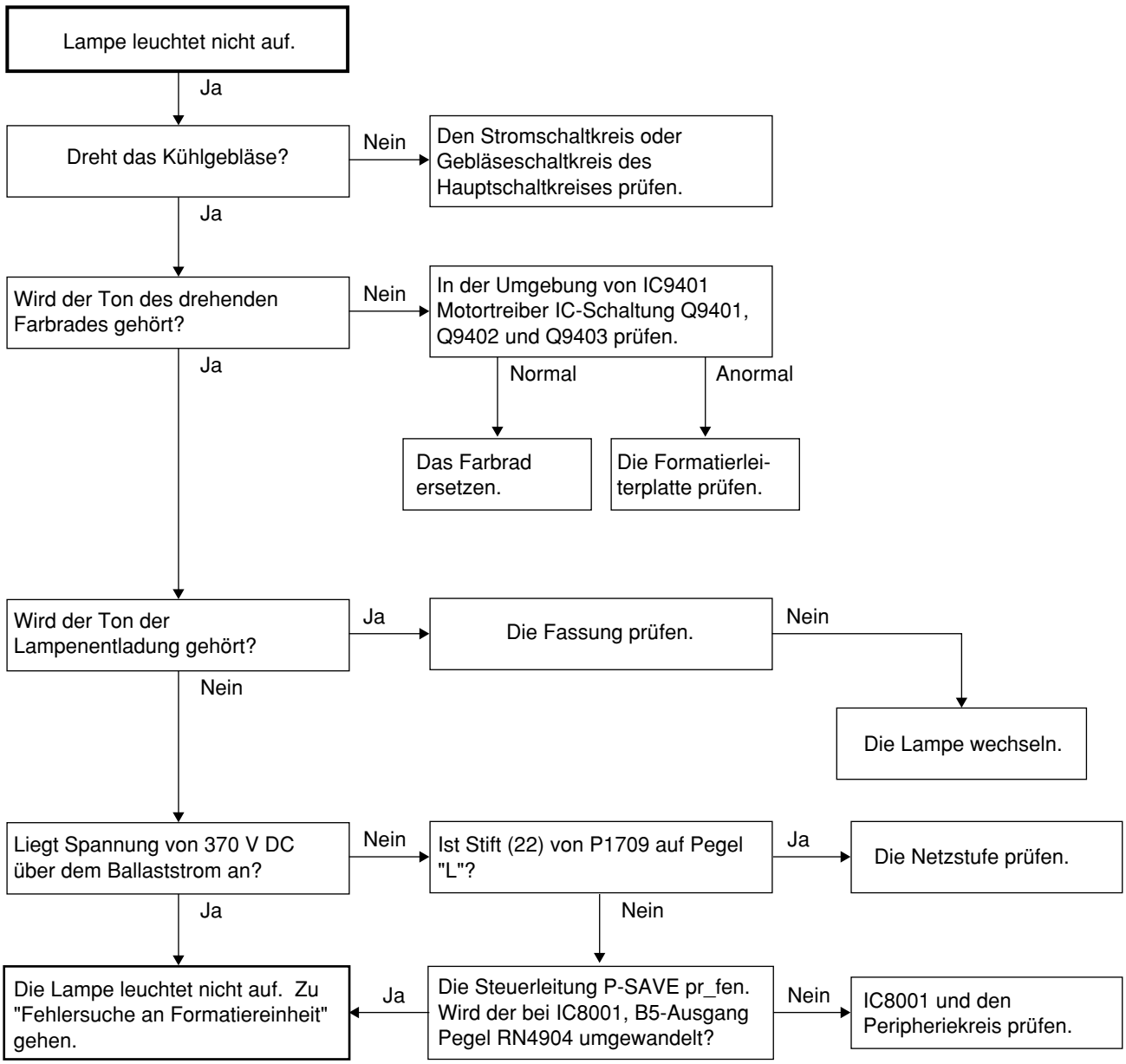
	Gruppe	Gegenstand
2nd layer	DTV	Contrast
		Tint
		Color
		Sharpness
		Bright
		R-Bright
		G-Bright
		B-Bright
		R-Contrast
		G-Contrast
		B-Contrast
	DVD	Contrast
		Tint
		Color
		Sharpness
		CTI-Level
		LTI-Level
		CB-Offset
		CR-Offset
		Bright
		B-DRIVE
		R-DRIVE
	VIDEO	Contrast
		N-Tint
		P-Tint
		S-Tint
		N-Color
		P-Color
		S-Color
		Sharpness
		CTI-Level
		LTI-Level
		CB-Offset
		CR-Offset
		Bright
		B-DRIVE
		R-DRIVE
	AD	R-Bright
		G-Bright
		B-Bright
		R-Contrast
		B-Contrast
		B-Contrast

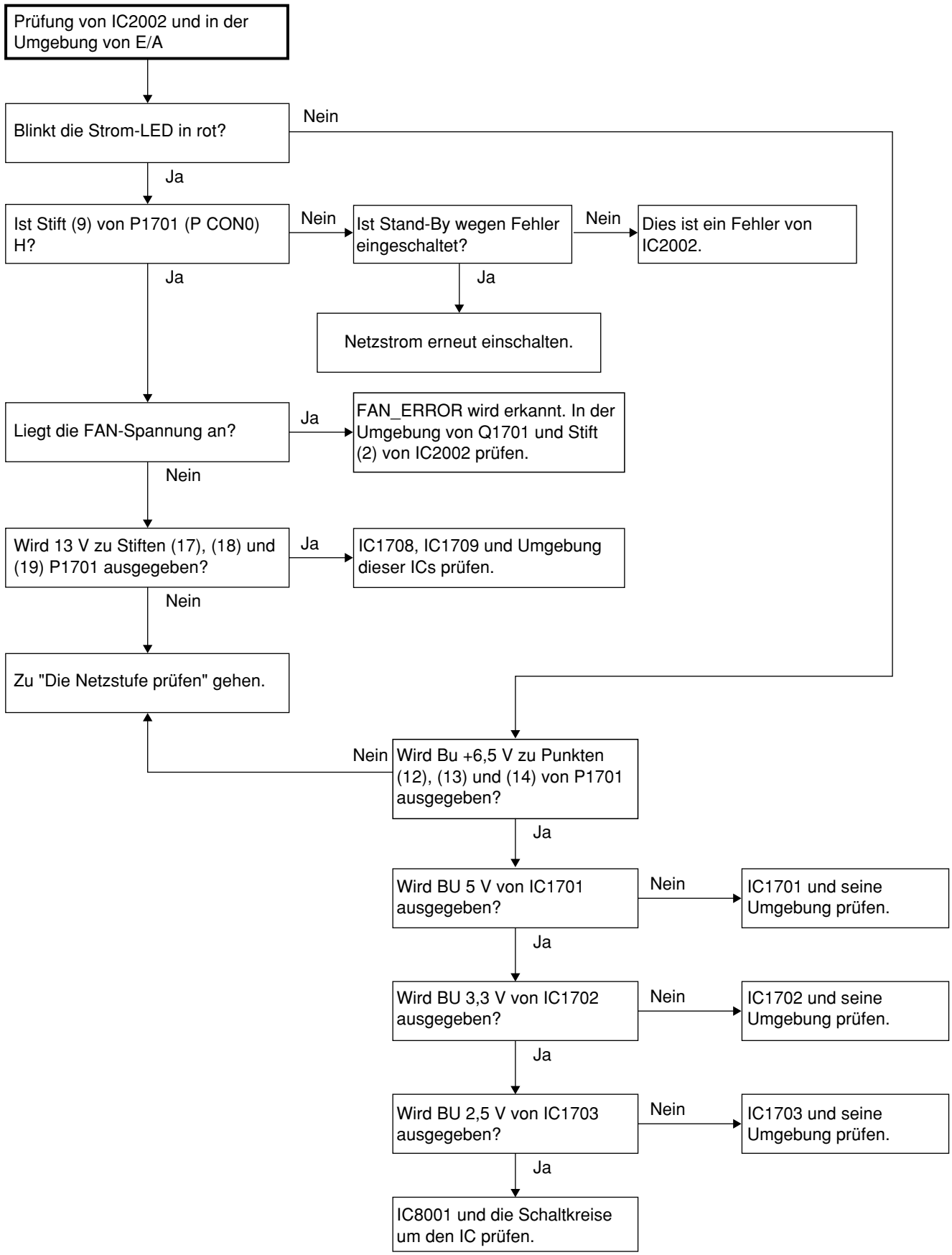
	DLP	Index Delay
		R-Bright
		G-Bright
		B-Bright
		R-Contrast
		G-Contrast
		B-Contrast
	VIDEO1	N-Contrast
		P-Contrast
		S-Contrast
		Color
		NT3.58 Delay
		NT4.43 Delay
		PAL Delay
		SECAM Delay
		Sharpness2
	PIXEL	R-GAIN
		G-GAIN
		B-GAIN
	Pedestal	R-Bright
		G-Bright
		B-Bright
		R-Contrast
		G-Contrast
		B-Contrast
	VERSION	Build
		Boot Code
		Config
		Rom Code
		GUI
	SS	SS2
		SS3 EU
		SS4 US
		SS5 JPN
		SS6 CHIN
	TEMP	Temp1
		Temp2
		Temp3
		Temp4
	OPTION	PW365 Gamma
		DLP Gamma
	PATTERN	Cross Hatch
		Color Bar
	LAMP	Current Time
		History1
		History2
		History3
		History4
		TOTAL TIME
	LINE	OFF
		LED CHECK

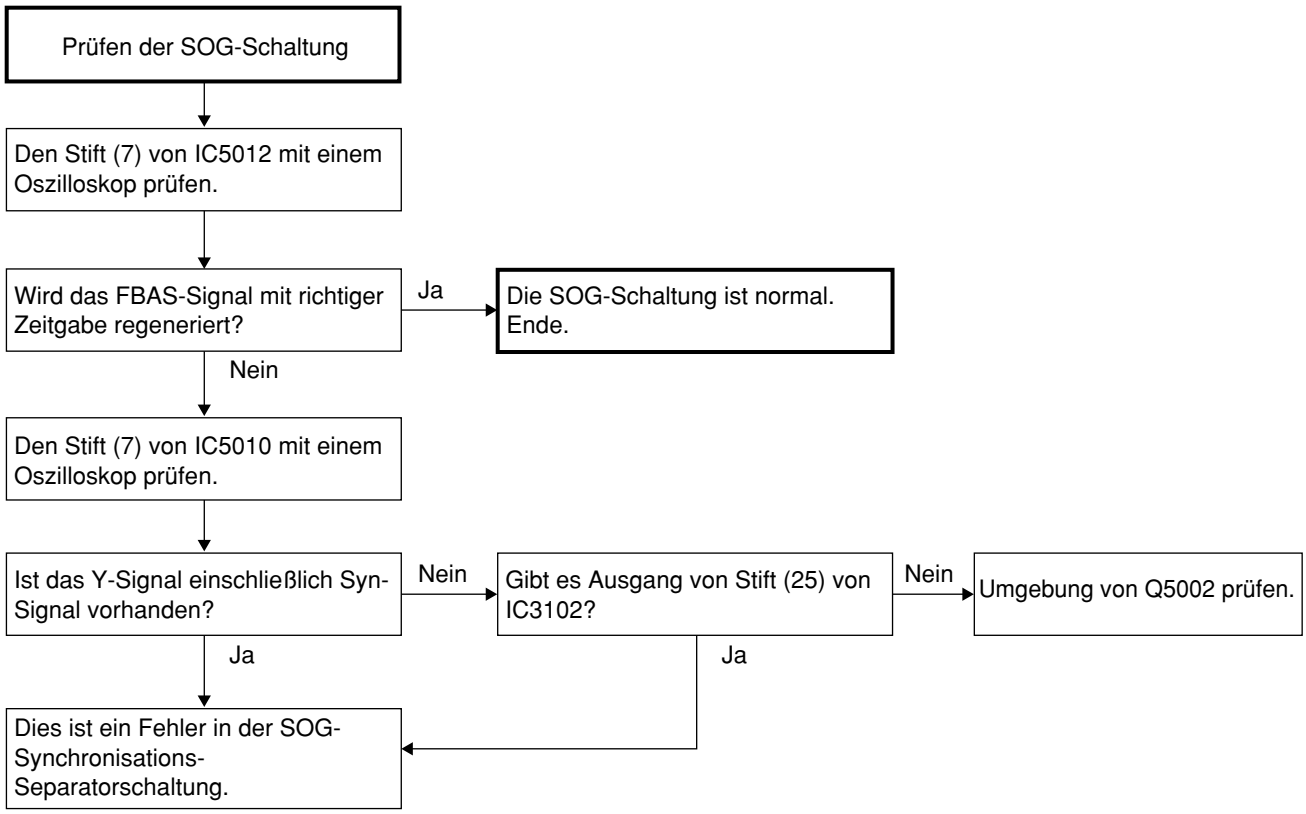
FEHLERSUCHTABELLE

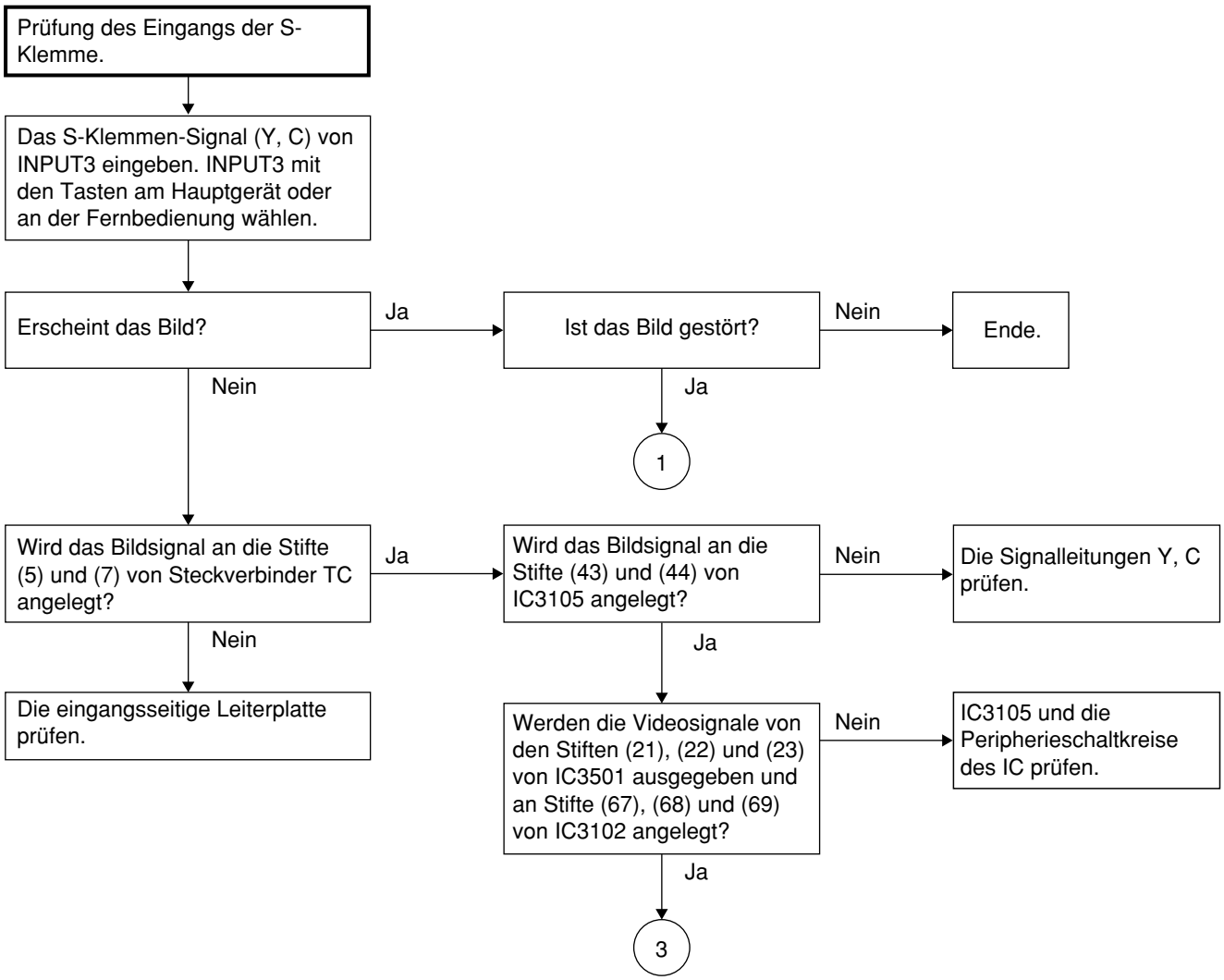


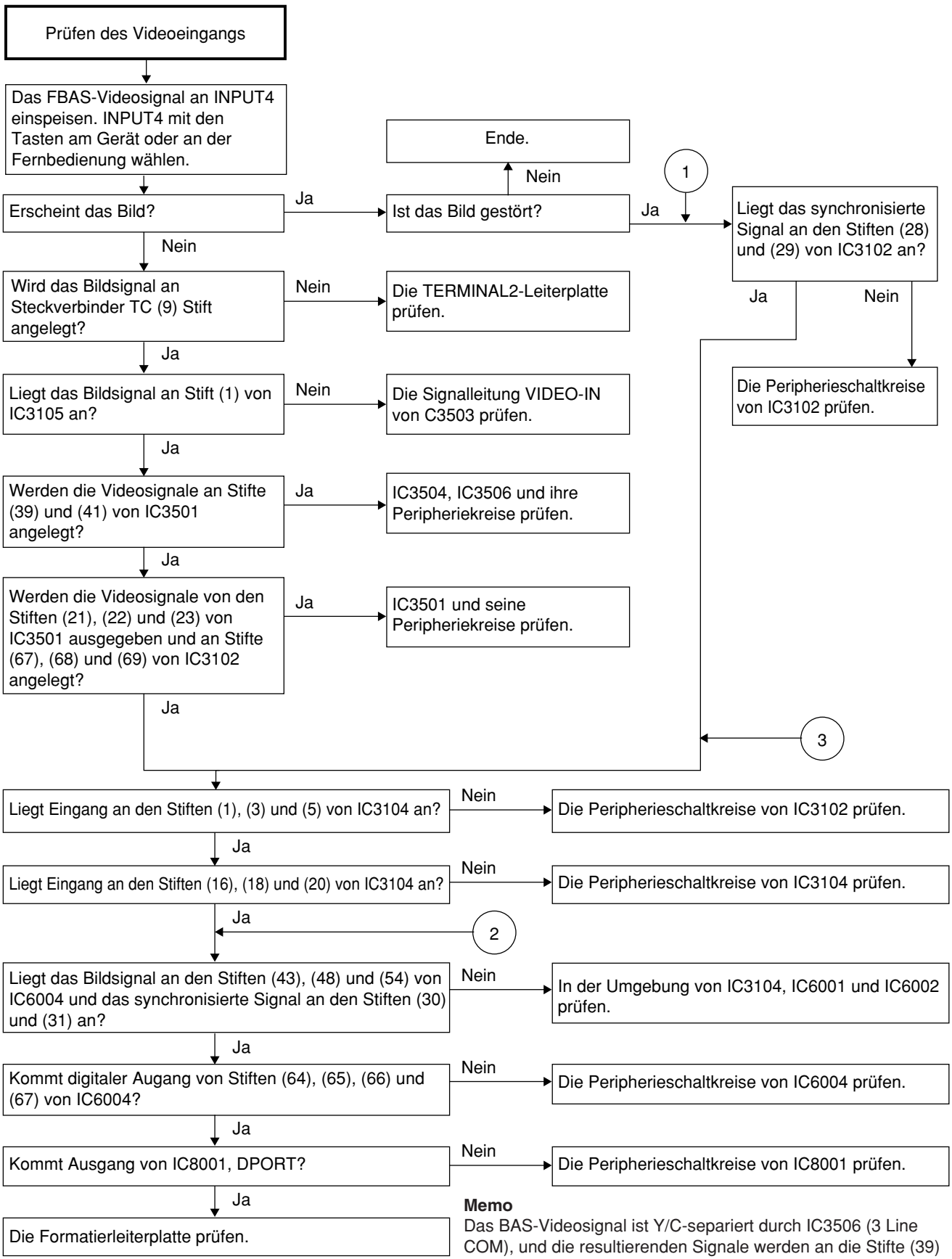

Die Netzstufe prüfen.
Sind die Verbindungen in der Netzstufe vollständig eingesteckt?
Nein
Jede Verbindung sicher einstecken.
Ja
Ist die Lampentür vollständig geschlossen?
Nein
Die Lampentür vollständig mit Schrauben schließen.
Ja
Ist der Bimetallschalter nicht unterbrochen?
Nein
Den Bimetallschalter ersetzen oder die rote Taste zum Rücksetzen drücken.
Ja
Liegt Wechselspannung am Wechselstromeingang an beiden Enden von D7001 an?
Nein
F7001 ersetzen.
Ersetzen wenn andere Schäden usw. vorliegen.
Ja
Liegt Gleichspannung von 6 V an beiden Enden von C7105 an?
Nein
In der Umgebung von IC7003 an der Primärseite und D7103 prüfen. Ersetzen wenn Schäden usw. vorliegen.
Ja
Beträgt die Spannung an der Kathode von D7004 ca. 370 V DC?
Nein
Die Primärseitenschaltung von IC7001 usw. prüfen. Ersetzen wenn Schäden usw. vorliegen.
Nein
Die Ballast-Stromquellenseite ersetzen.
Ja
Liegt Nennspannung an den Ausgangsklemmen von CN7101 und CN7102 an?
Nein
Die Sekundärseitenschaltung von T7001 usw. prüfen. Ersetzen wenn Schäden usw. vorliegen.
Ja
Die Leiterplattenschaltungen von relevanten Ausgangsseiten prüfen.


Lampe leuchtet nicht auf.
Ja
Dreht das Kühlgebläse?
Nein
Den Stromschaltkreis oder Gebläseschaltkreis des Hauptschaltkreises prüfen.
Ja
Wird der Ton des drehenden Farbrades gehört?
Nein
In der Umgebung von IC9401 Motortreiber IC-Schaltung Q9401, Q9402 und Q9403 prüfen.
Ja
Normal
Anormal
Das Farbrad ersetzen.
Die Formatierlei-terplatte prüfen.
Wird der Ton der Lampenentladung gehört?
Ja
Die Fassung prüfen.
Nein
Die Lampe wechseln.
Nein
Liegt Spannung von 370 V DC über dem Ballaststrom an?
Nein
Ist Stift (22) von P1709 auf Pegel "L"?
Ja
Die Netzstufe prüfen.
Ja
Nein
Die Lampe leuchtet nicht auf. Zu "Fehlersuche an Formatiereinheit" gehen.
Ja
Die Steuerleitung P-SAVE pr_fen. Wird der bei IC8001, B5-Ausgang Pegel RN4904 umgewandelt?
Nein
IC8001 und den Peripheriekreis prüfen.


Prüfung von IC2002 und in der Umgebung von E/A
Blinkt die Strom-LED in rot?
Nein
Ja
Ist Stift (9) von P1701 (P CON0) H?
Nein
Ist Stand-By wegen Fehler eingeschaltet?
Nein
Dies ist ein Fehler von IC2002.
Ja
Ja
Netzstrom erneut einschalten.
Liegt die FAN-Spannung an?
Ja
FAN_ERROR wird erkannt. In der Umgebung von Q1701 und Stift (2) von IC2002 prüfen.
Nein
Wird 13 V zu Stiften (17), (18) und (19) P1701 ausgegeben?
Ja
IC1708, IC1709 und Umgebung dieser ICs prüfen.
Nein
Zu "Die Netzstufe prüfen" gehen.
Nein
Wird Bu +6,5 V zu Punkten (12), (13) und (14) von P1701 ausgegeben?
Ja
Wird BU 5 V von IC1701 ausgegeben?
Nein
IC1701 und seine Umgebung prüfen.
Ja
Wird BU 3,3 V von IC1702 ausgegeben?
Nein
IC1702 und seine Umgebung prüfen.
Ja
Wird BU 2,5 V von IC1703 ausgegeben?
Nein
IC1703 und seine Umgebung prüfen.
Ja
IC8001 und die Schaltkreise um den IC prüfen.

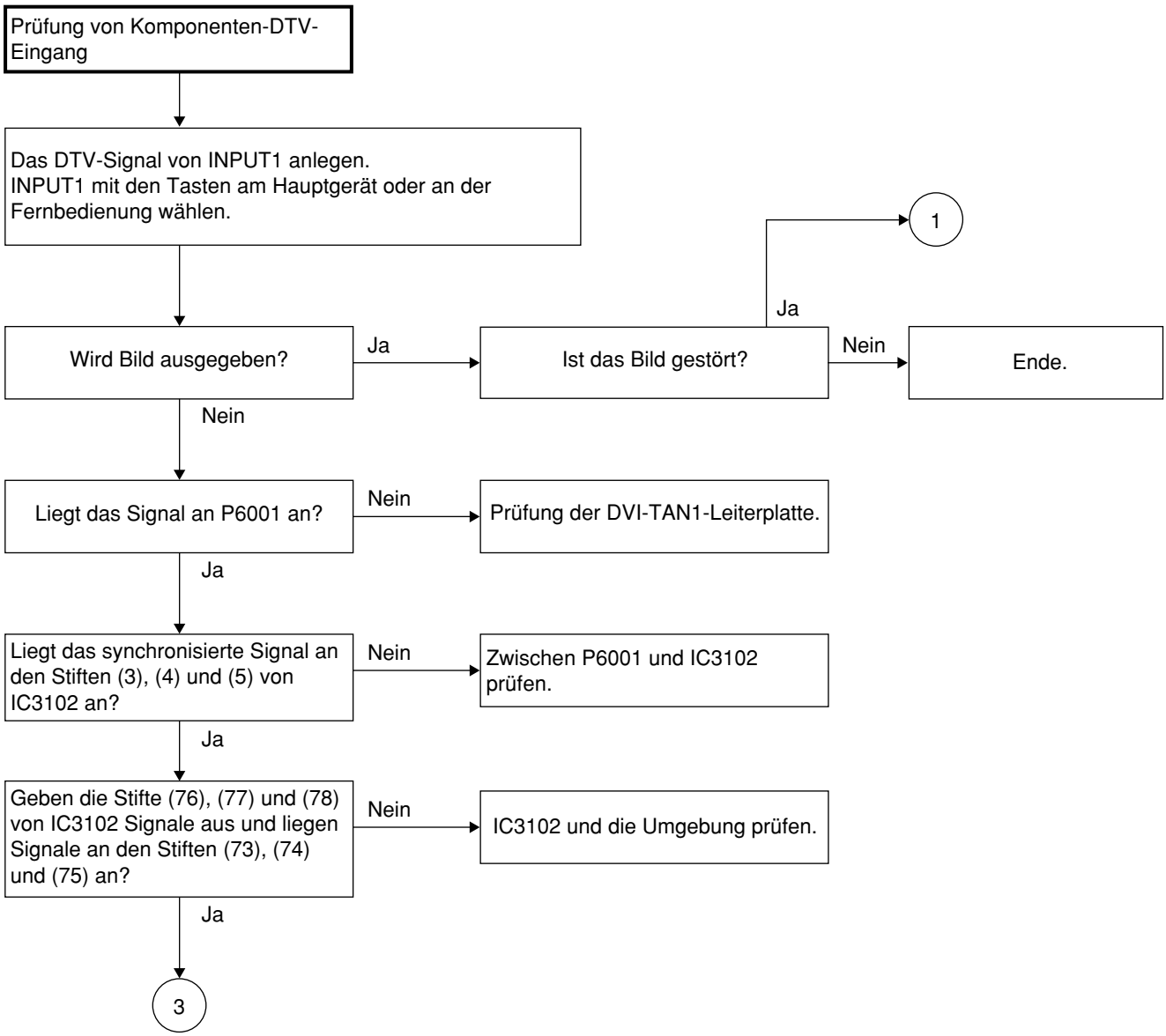

Prüfen der SOG-Schaltung
Den Stift (7) von IC5012 mit einem Oszilloskop prüfen.
Wird das FBAS-Signal mit richtiger Zeitgabe regeneriert?
Ja
Die SOG-Schaltung ist normal. Ende.
Nein
Den Stift (7) von IC5010 mit einem Oszilloskop prüfen.
Ist das Y-Signal einschließlich Syn-Signal vorhanden?
Nein
Gibt es Ausgang von Stift (25) von IC3102?
Nein
Umgebung von Q5002 prüfen.
Ja
Ja
Dies ist ein Fehler in der SOG-Synchronisations-Separatorschaltung.

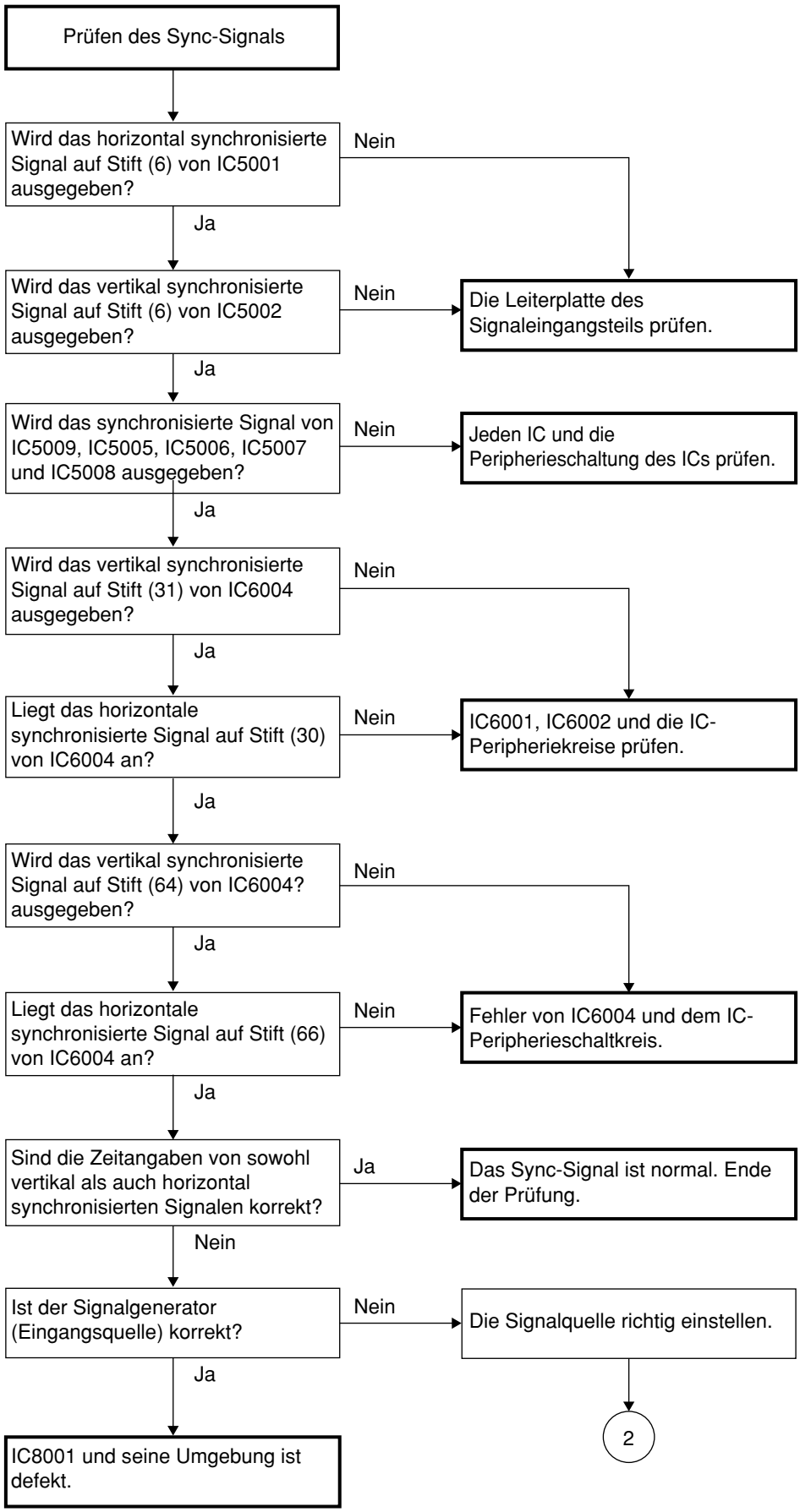

Prüfung des Eingangs der S-Klemme.
Das S-Klemmen-Signal (Y, C) von INPUT3 eingeben. INPUT3 mit den Tasten am Hauptgerät oder an der Fernbedienung wählen.
Erscheint das Bild?
Ja
Ist das Bild gestört?
Nein
Ende.
Nein
Ja
1
Wird das Bildsignal an die Stifte (5) und (7) von Steckverbinder TC angelegt?
Ja
Wird das Bildsignal an die Stifte (43) und (44) von IC3105 angelegt?
Nein
Die Signalleitungen Y, C prüfen.
Nein
Ja
Die eingangsseitige Leiterplatte prüfen.
Werden die Videosignale von den Stiften (21), (22) und (23) von IC3501 ausgegeben und an Stifte (67), (68) und (69) von IC3102 angelegt?
Nein
IC3105 und die Peripherieschaltkreise des IC prüfen.
Ja
3



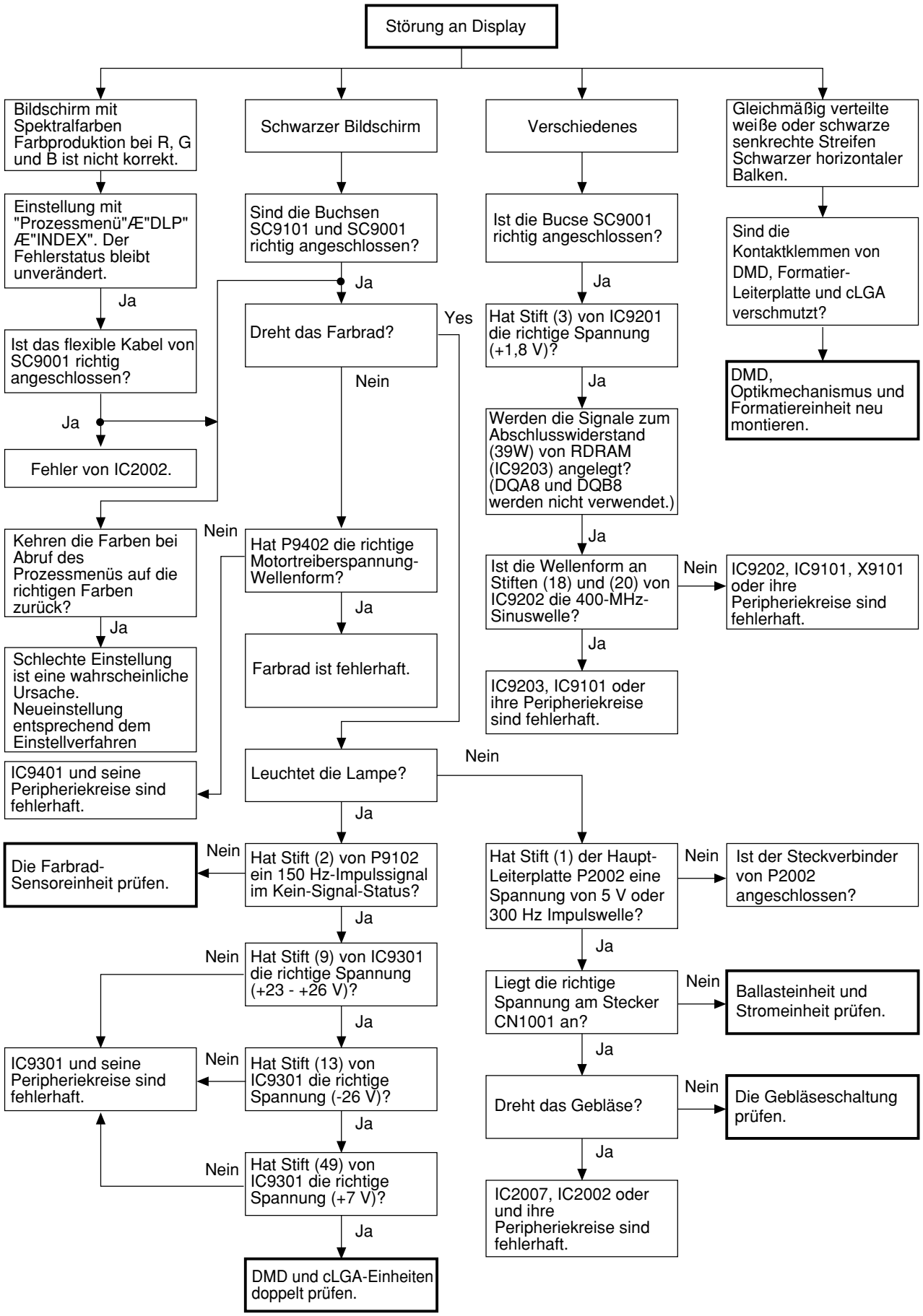
Memo

Das BAS-Videosignal ist Y/C-separiert durch IC3506 (3 Line COM), und die resultierenden Signale werden an die Stifte (39) und (41) von IC3105 angelegt.
Das Videosignal wird von den Farbdifferenz-Stiften (21), (22) und (23) von IC3105 ausgegeben.

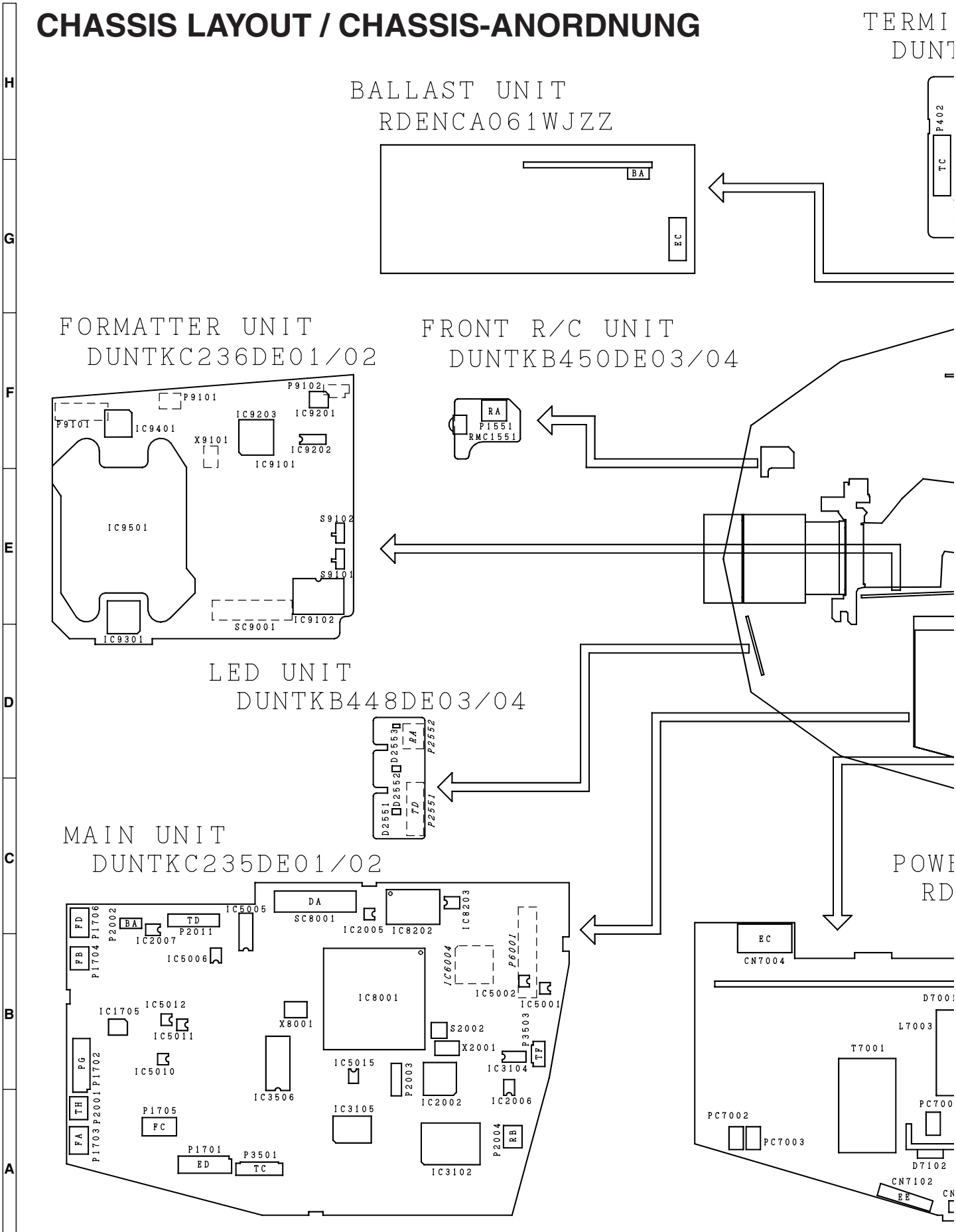

Prüfung von Komponenten-DTV-Eingang
Das DTV-Signal von INPUT1 anlegen.
INPUT1 mit den Tasten am Hauptgerät oder an der Fernbedienung wählen.
Wird Bild ausgegeben?
Ja
Ist das Bild gestört?
Ja
1
Nein
Ende.
Nein
Liegt das Signal an P6001 an?
Nein
Prüfung der DVI-TAN1-Leiterplatte.
Ja
Liegt das synchronisierte Signal an den Stiften (3), (4) und (5) von IC3102 an?
Nein
Zwischen P6001 und IC3102 prüfen.
Ja
Geben die Stifte (76), (77) und (78) von IC3102 Signale aus und liegen Signale an den Stiften (73), (74) und (75) an?
Nein
IC3102 und die Umgebung prüfen.
Ja
3


Prüfen des Sync-Signals
Wird das horizontal synchronisierte Signal auf Stift (6) von IC5001 ausgegeben?
Nein
Ja
Wird das vertikal synchronisierte Signal auf Stift (6) von IC5002 ausgegeben?
Nein
Die Leiterplatte des Signaleingangsteils prüfen.
Ja
Wird das synchronisierte Signal von IC5009, IC5005, IC5006, IC5007 und IC5008 ausgegeben?
Nein
Jeden IC und die Peripherieschaltung des ICs prüfen.
Ja
Wird das vertikal synchronisierte Signal auf Stift (31) von IC6004 ausgegeben?
Nein
Ja
Liegt das horizontale synchronisierte Signal auf Stift (30) von IC6004 an?
Nein
IC6001, IC6002 und die IC-Peripheriekreise prüfen.
Ja
Wird das vertikal synchronisierte Signal auf Stift (64) von IC6004? ausgegeben?
Nein
Ja
Liegt das horizontale synchronisierte Signal auf Stift (66) von IC6004 an?
Nein
Fehler von IC6004 und dem IC-Peripherieschaltkreis.
Ja
Sind die Zeitangaben von sowohl vertikal als auch horizontal synchronisierten Signalen korrekt?
Ja
Das Sync-Signal ist normal. Ende der Prüfung.
Nein
Ist der Signalgenerator (Eingangsquelle) korrekt?
Nein
Die Signalquelle richtig einstellen.
Ja
2
IC8001 und seine Umgebung ist defekt.

- Formatiereinheit-Störungssuche

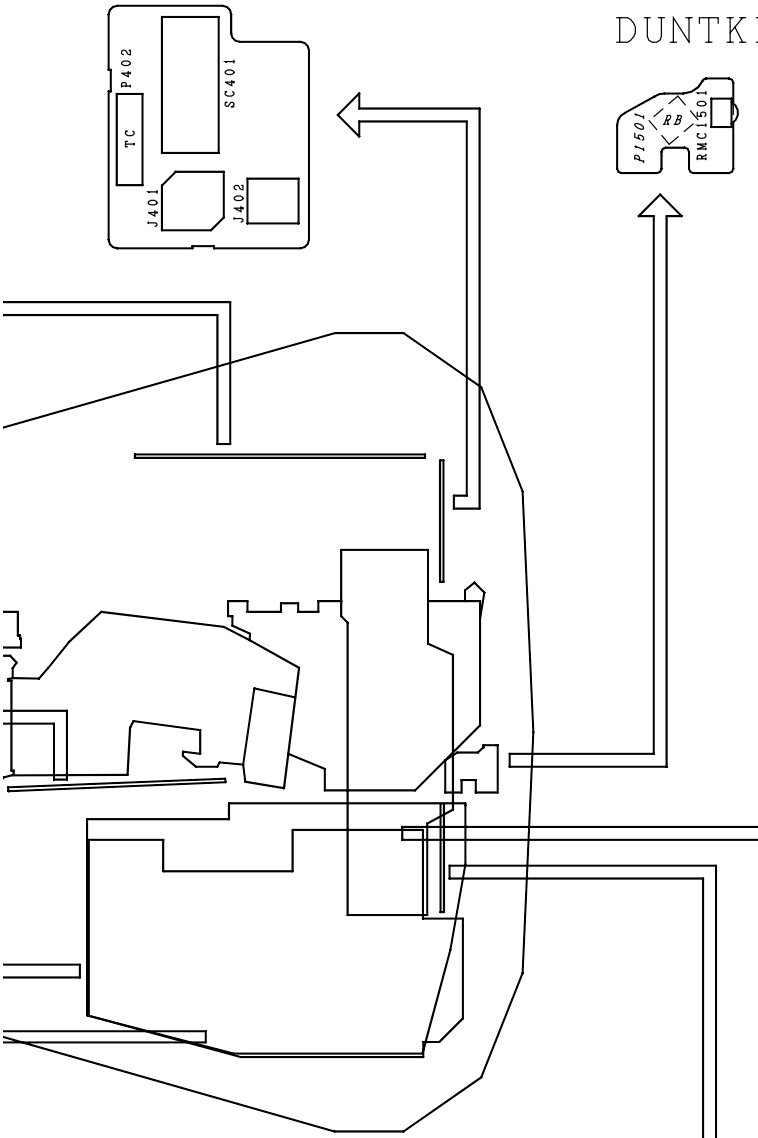


CHASSIS LAYOUT / CHASSIS-ANORDNUNG

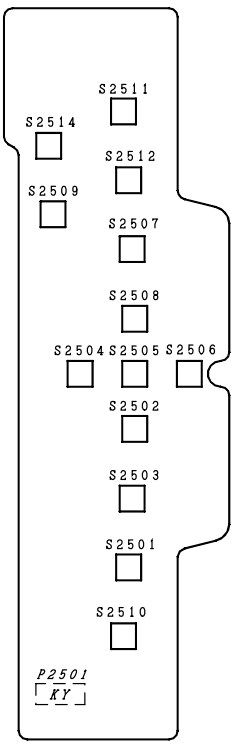


TERMINAL2 UNIT
DUNTKB447DE03/04

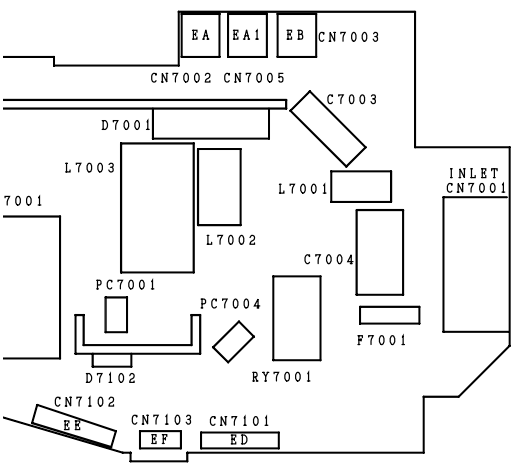
REAR R/C UNIT
DUNTKB451DE03/04



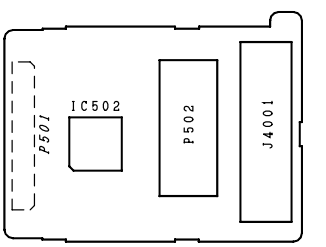
KEY UNIT
DUNTKB449DE03/04



POWER UNIT
RDENCA060WJZZ

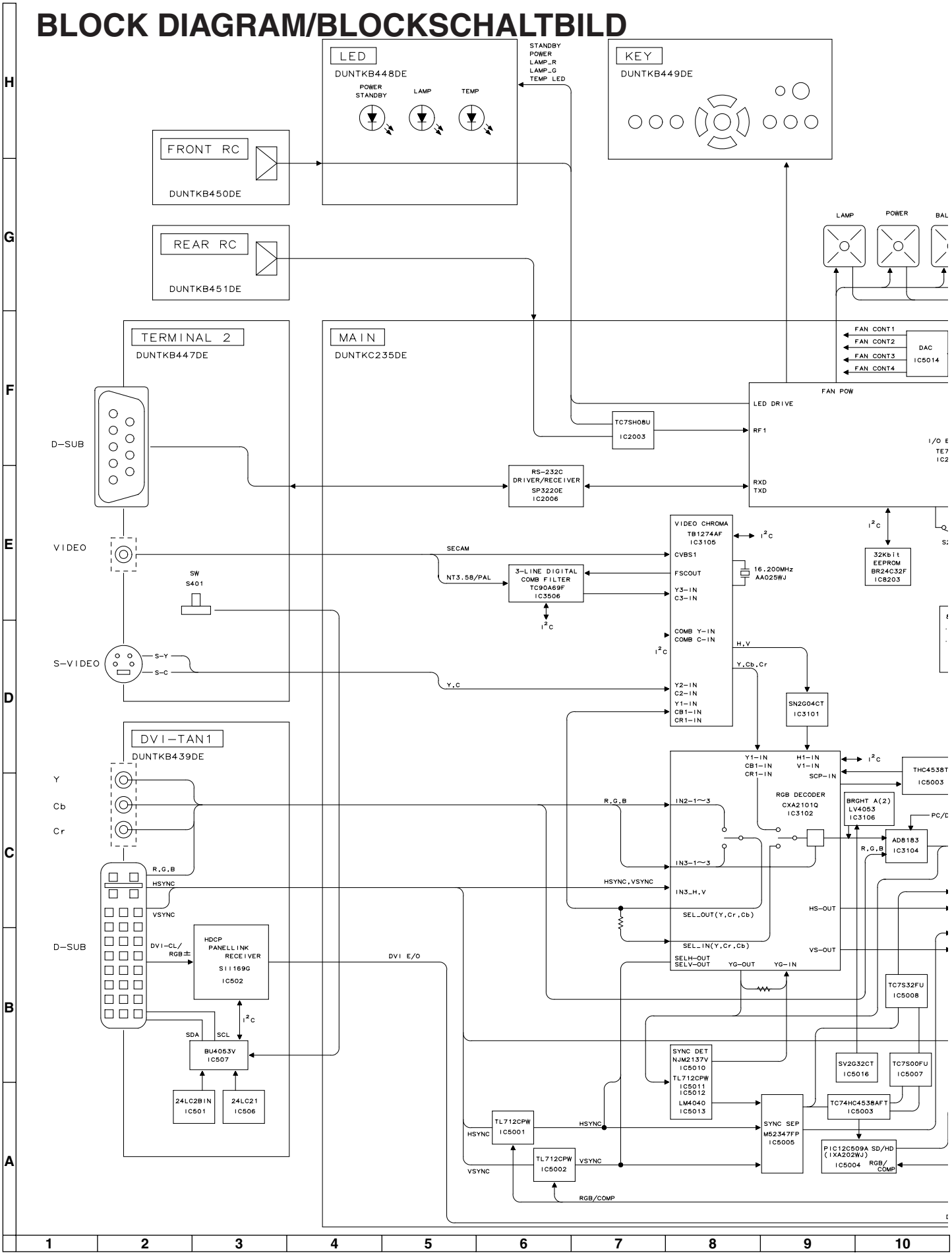


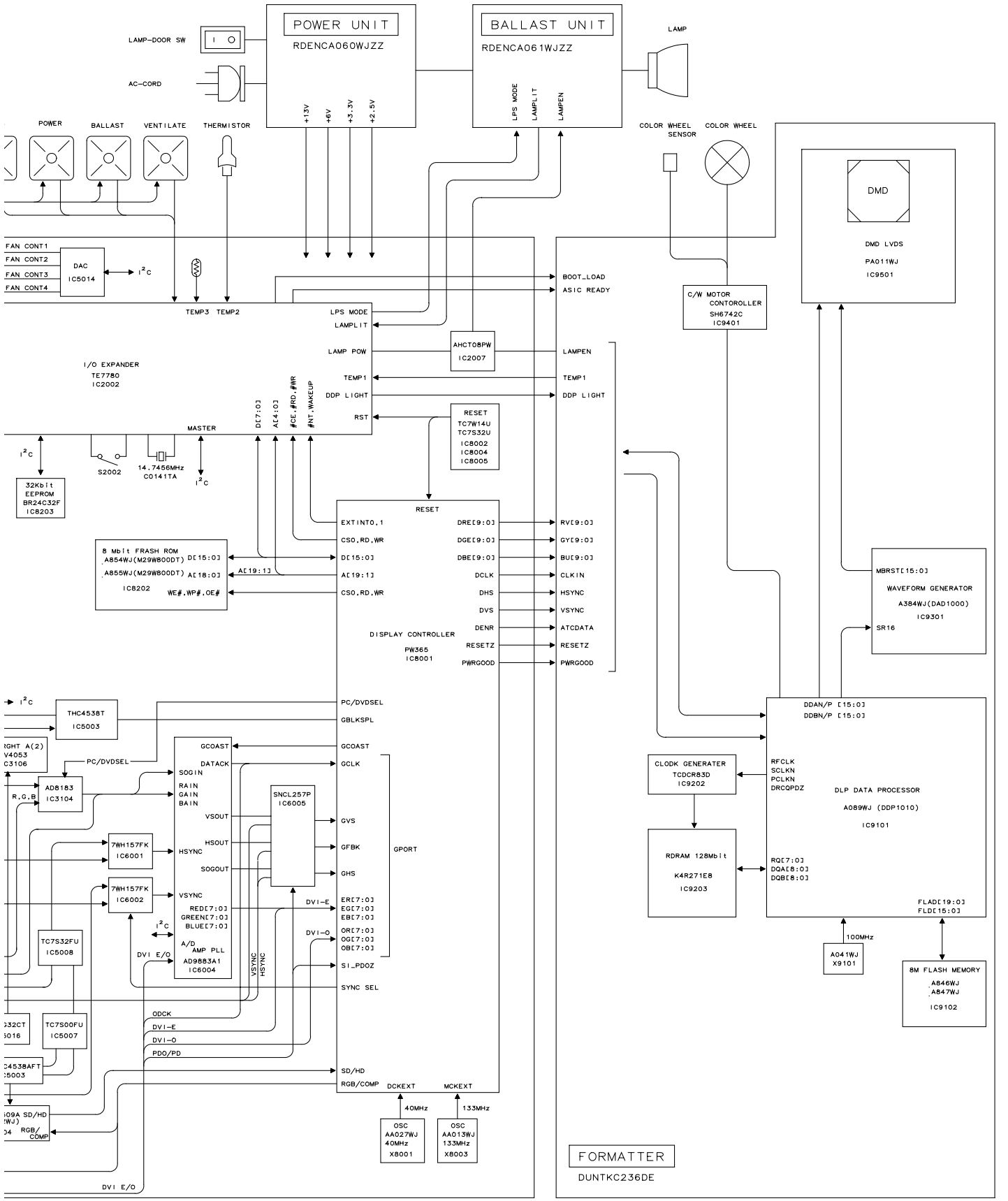
TERMINAL1 UNIT
DUNTKB439DE03/04



10	11	12	13	14	15	16	17	18	19

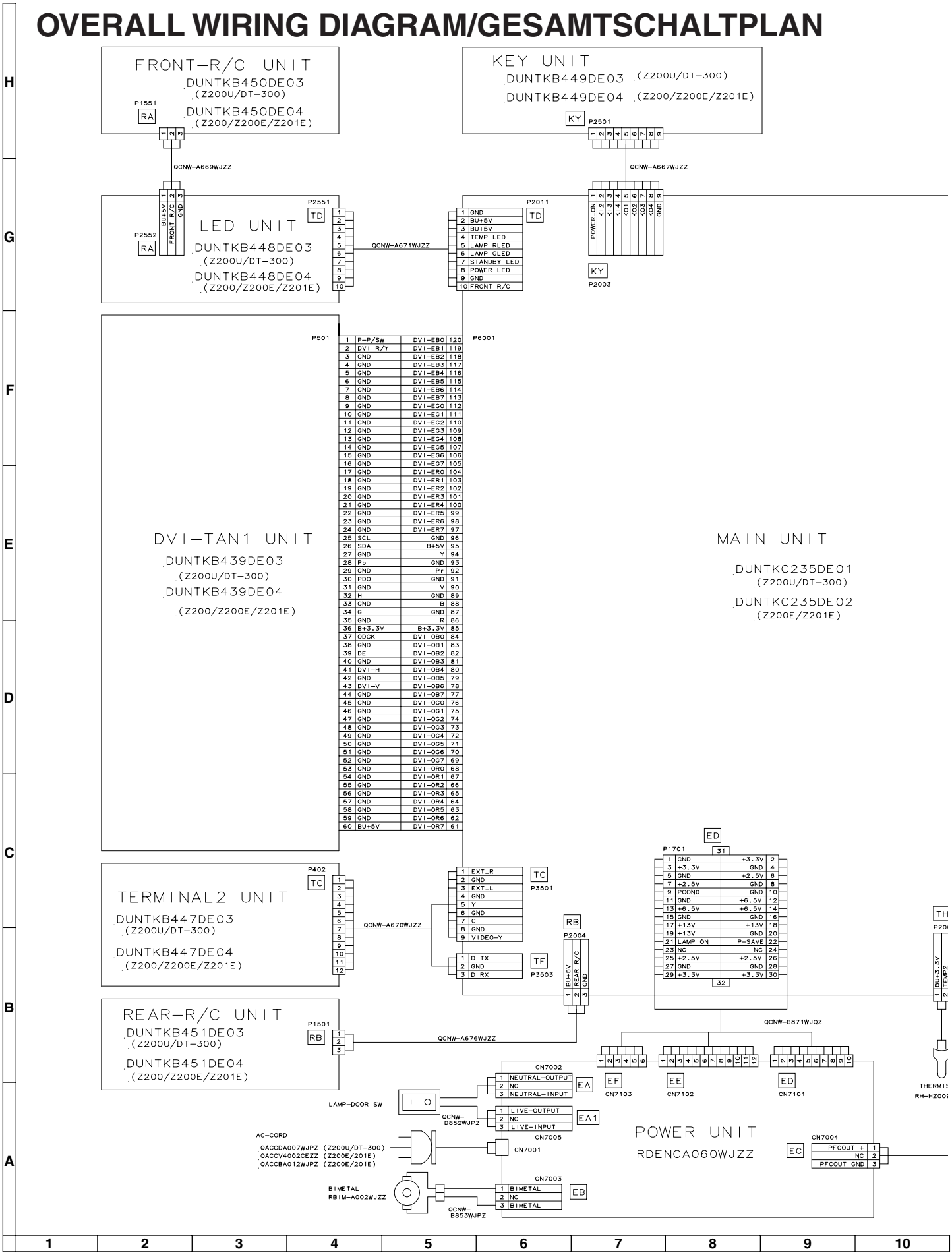
BLOCK DIAGRAM/BLOCKSCHALTBILD

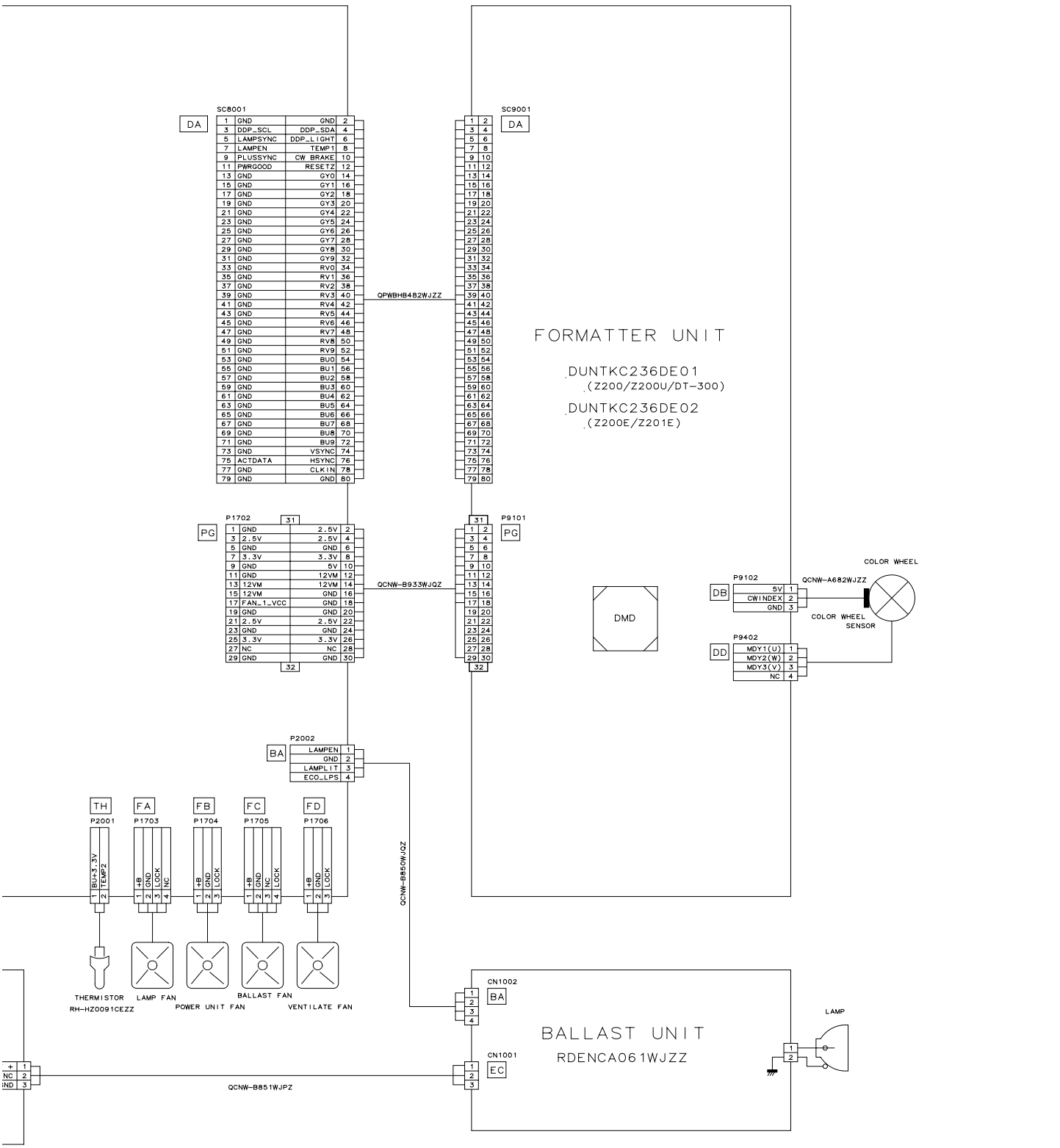




10	11	12	13	14	15	16	17	18	19

OVERALL WIRING DIAGRAM/GESAMTSCHALTPLAN





10	11	12	13	14	15	16	17	18	19

DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. Voltages at test points are measured at the supply voltage of AC 220V. Signals are fed by a color bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

WAVEFORM MEASUREMENT CONDITION:

1. Waveforms at test points are observed at the supply voltage of AC 220V. Signals are fed by a color bar signal generator for servicing purpose.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/10W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.
   Ⓒ: Solid Ⓦ: Cement
   Ⓢ: Oxide Film Ⓣ: Special
   Ⓝ: Metal Coating

CAPACITOR

1. All capacitors are μF, unless otherwise noted. (P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.
   (ML): Mylar (TA): Tantalum
   (PF): Polypro Film (ST): Styrol

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

SAFETY NOTES:

1.DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
2.SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠" ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

BESCHREIBUNG DES SCHEMATISCHEN SCHALTPLANS

SPANNUNGSMESSUNGEN:

1. Spannungen an den Prüfpunkten werden bei einer Netzspannung von 220V gemessen, Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt, und Spannungen werden mit einem Meßinstrument (20 k /V) er mittelt.

SIGNALFORMMESSUNGEN:

1. Die Wellenformen an den Testpunkten werden bei einer Netzspannung von 220V verfolgt. Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt.

BEZEICHNUNG DES WIDERSTANDS UND KONDENSATORS:

WIDERSTAND

1. Die Widerstandseinheit " " wird weggelassen. (K=k =1000 , M=M)
2. Alle Widerstände haben ± 5%, sofern nicht anders angegeben.(J= ± 5%, F= ± 1%, D= ± 0.5%)
3. Alle Widerstände haben 1/10W, sofern nicht anders angegeben.
4. Alle Widerstände sind Kohletyp, sofern nicht anders angegeben.
   Ⓒ: Solid Ⓦ: Cement
   Ⓢ: Oxide Film Ⓣ: Special
   Ⓝ: Metal Coating

KONDENSATOR

1. Die Kapazitätseinheit ist μF, sofern nicht anders angegeben. (P=pF=μμF).
2. Alle Kondensatoren haben 50V, sofern nicht anders angegeben.
3. Alle Kondensatoren sind Keramiktyp, sofern nicht anders angegeben.
   (ML): Mylar (TA): Tantal
   (PF): Polyprofilm (ST): Styrol

ACHTUNG:
Bei diesem Schaltplan handelt es sich um den ursprünglichen. Esönnen daher geringfügige Unterschiede zu dem Ihrem bestehen.

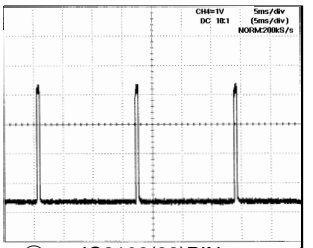
SICHERHEITSANMERKUNGEN:

1. VOR DEM AUSWECHSELN VON TEILEN MUSS UNBEDINGT NETZSTECKER AUS DER NETZSTECKDOSE GEZOGEN WERDEN.
2. DIE WARMEABLEITER DER HALBLEITER SOLLTEN BEIM BETRIEB DES CHASSIS ALS MÖGLICHE URSACHEN VON GEFÄHRLICHEN ELEKTRISCHEN SCHLÄGEN BETRACHTET WERDEN.

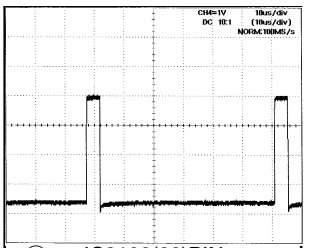
WICHTIGE SICHERHEITSANMERKUNGEN:

MIT "⚠"( )BEZEICHNETEN TEILE SIND BESONDERS WICHTIG FÜR DIE AUFRECHTERHALTUNG DER SICHERHEIT . BEIM WECHDIESER TEILE SOLLTEN DIE VORGESCHRIEBENEN TEILE IMMER VERWENDET WERDEN, UM SOWOHL DIE SICHERHEIT ALS AUCH DIE LEISTUNG DES GERÄTES AUFRECHTZUERHALTEN.

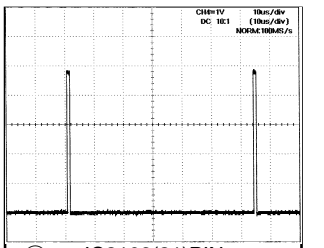
WAVEFORMS/WELLENFORMEN



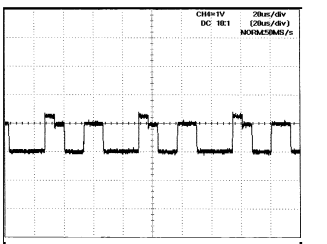
① IC3102(28)PIN
(VS-OUT)
H : 5ms/div
V : 1V/div



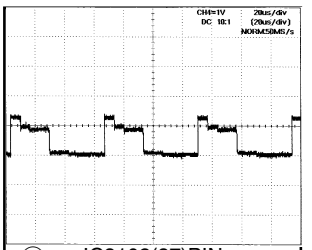
② IC3102(29)PIN
(HS-OUT)
H : 10µs/div
V : 1V/div



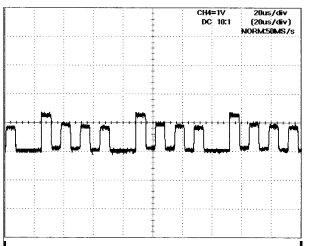
③ IC3102(31)PIN
(SCP-IN)
H : 10µs/div
V : 1V/div



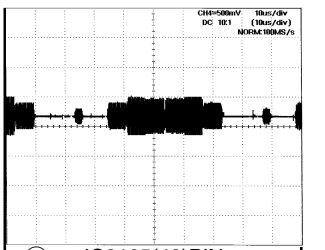
④ IC3102(35)PIN
(R-OUT)
H : 20µs/div
V : 1V/div



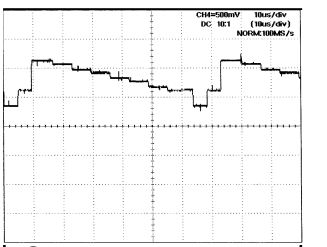
⑤ IC3102(37)PIN
(G-OUT)
H : 20µs/div
V : 1V/div



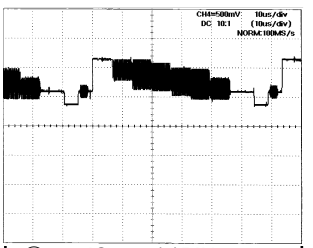
⑥ IC3102(39)PIN
(B-OUT)
H : 20µs/div
V : 1V/div



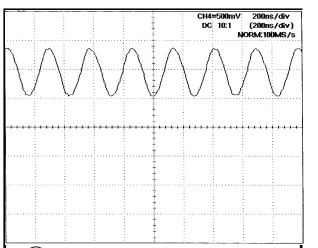
⑦ IC3105(43)PIN
(C2-IN)
H : 10µs/div
V : 500mV/div



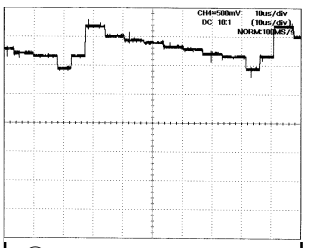
⑧ IC3105(44)PIN
(CVBS2/Y2-IN)
H : 10µs/div
V : 500mV/div



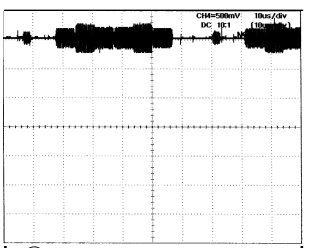
⑨ IC3506(7)PIN
(YCIN)
H : 10µs/div
V : 500mV/div



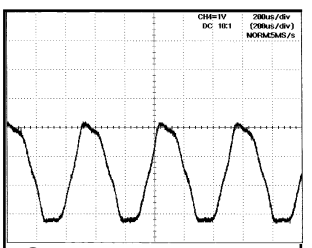
⑩ IC3506(19)PIN
(FSC)
H : 200ns/div
V : 500mV/div



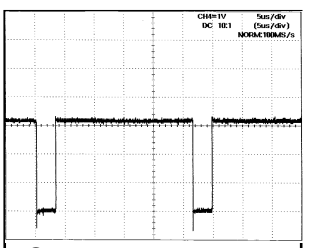
⑪ IC3506(25)PIN
(Y-OUT)
H : 10µs/div
V : 500mV/div



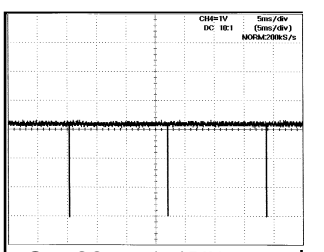
⑫ IC3506(27)PIN
(C-OUT)
H : 10µs/div
V : 500mV/div



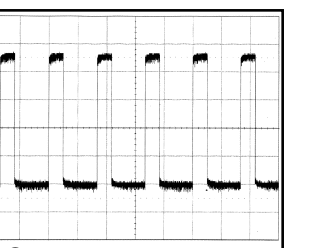
⑬ SC8001(78)PIN
(DCLK)
H : 200µs/div
V : 1V/div



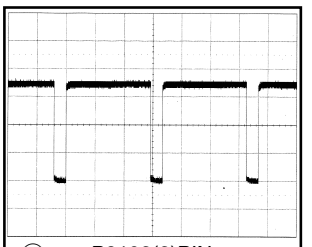
⑭ SC8001(76)PIN
(DHS)
H : 5µs/div
V : 1V/div



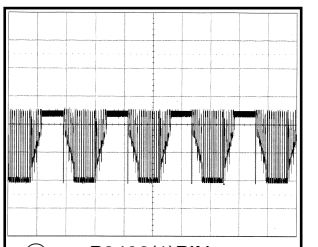
⑮ SC8001(74)PIN
(DVS)
H : 5ms/div
V : 1V/div



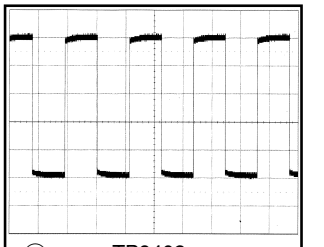
⑯ P2002(1)PIN
(LAMP EN)
H : 2ms/div
V : 1V/div



⑰ P9102(2)PIN
(CWINDEX)
H : 2ms/div
V : 1V/div

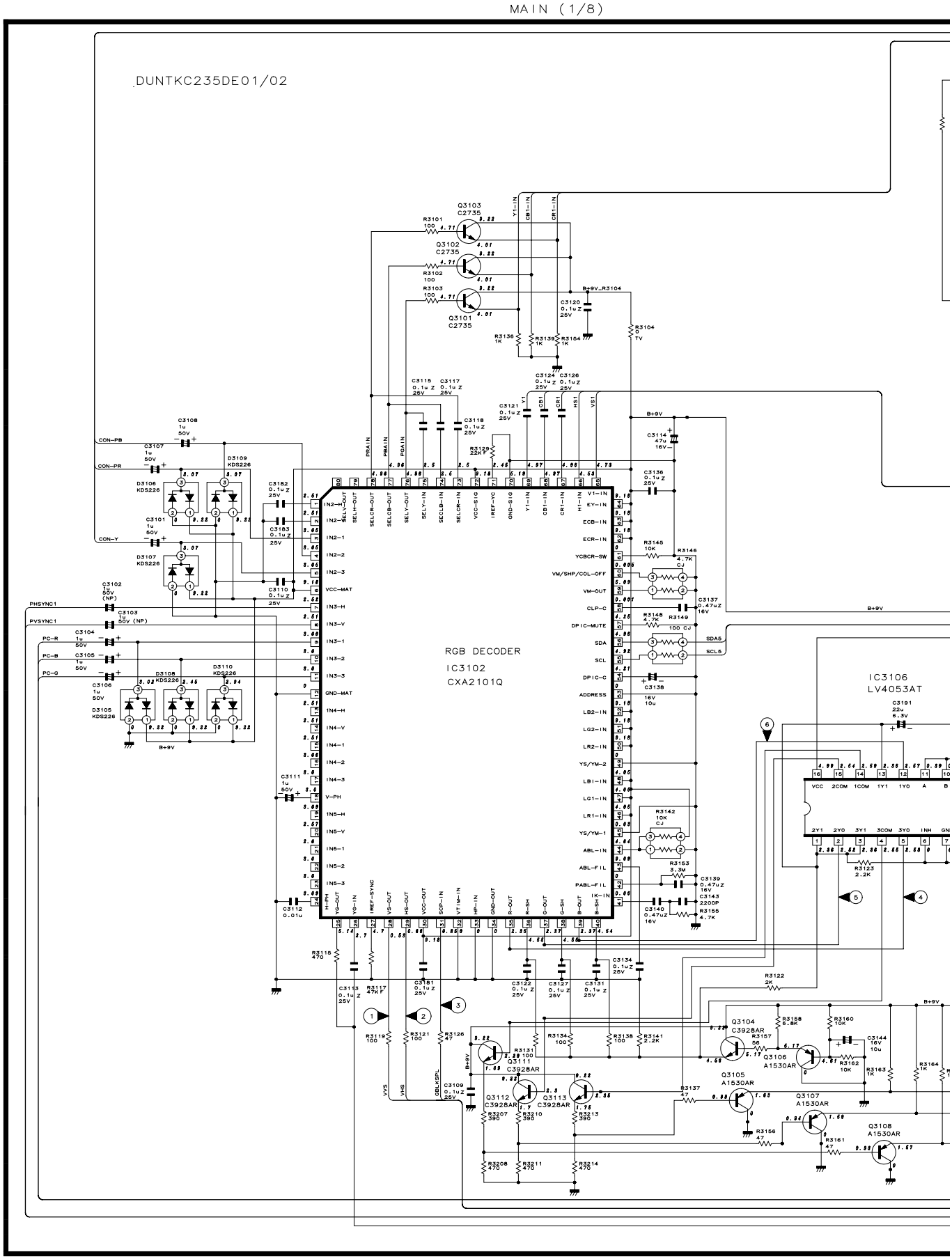


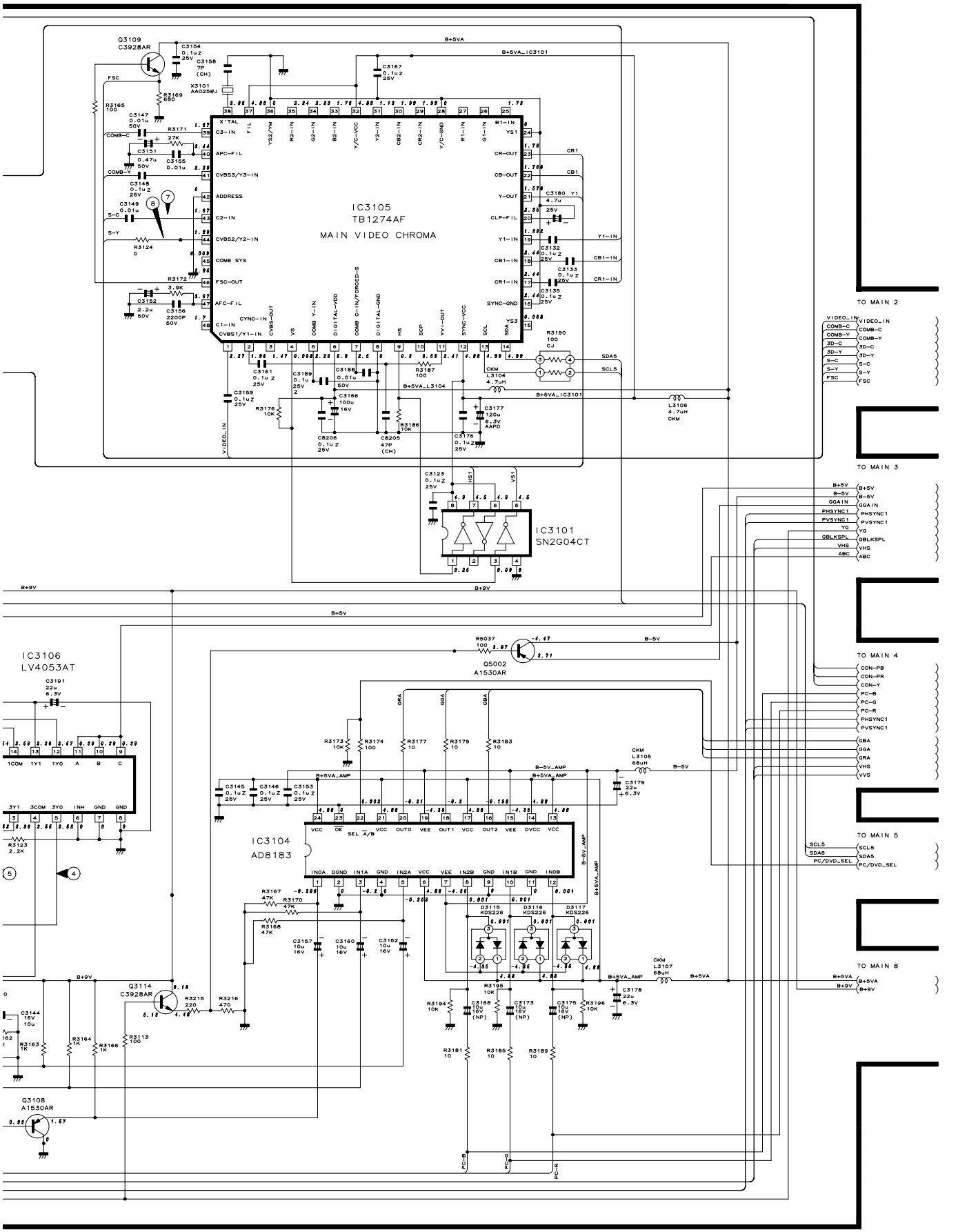
⑱ P9402(1)PIN
(MDY1(U))
H : 500µs/div
V : 5V/div



⑲ TP9402
(DMUX)
H : 500µs/div
V : 1V/div

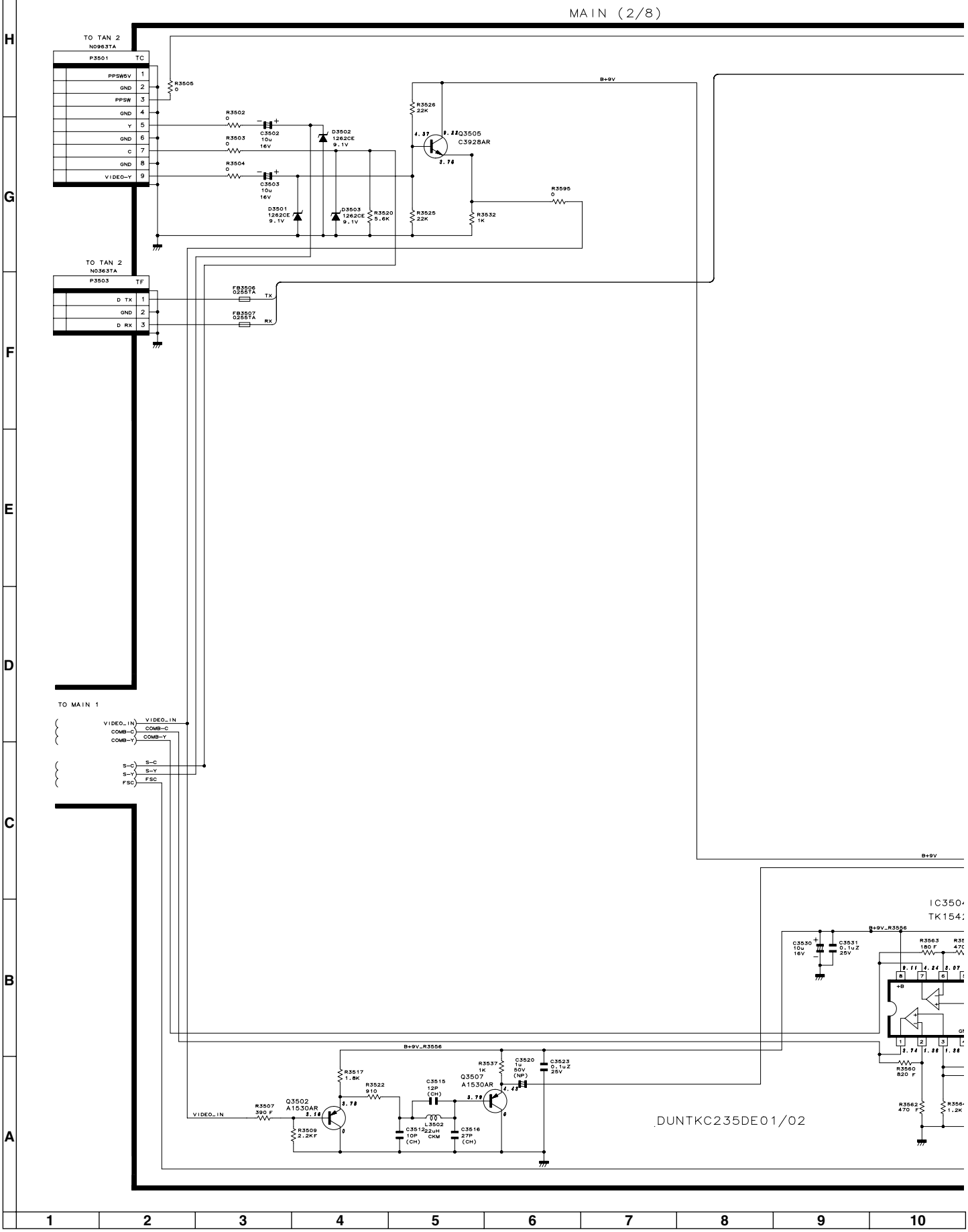
■ MAIN UNIT/HAUPTEINHEIT-1/8

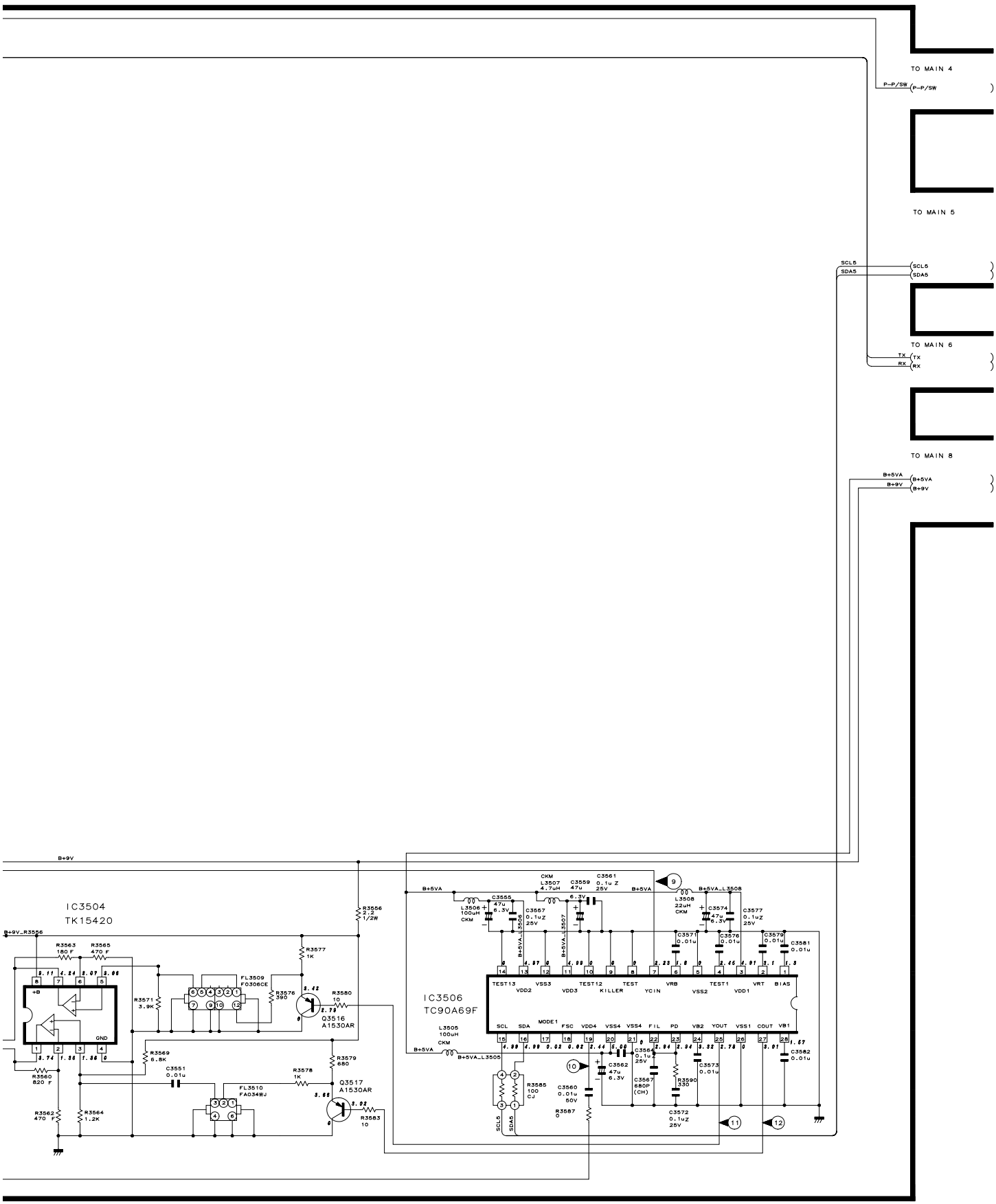




10	11	12	13	14	15	16	17	18	19

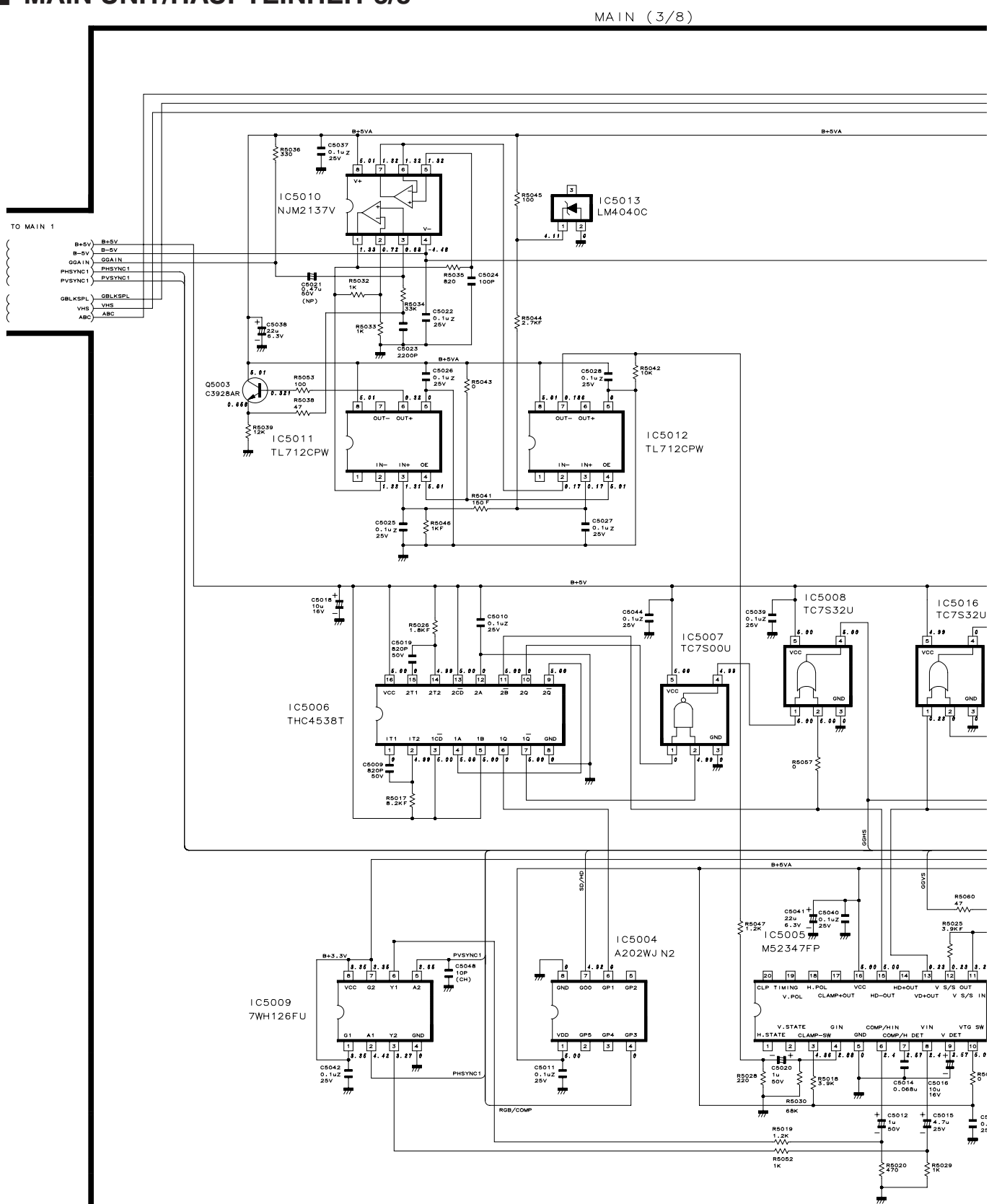
■ MAIN UNIT/HAUPTEINHEIT-2/8

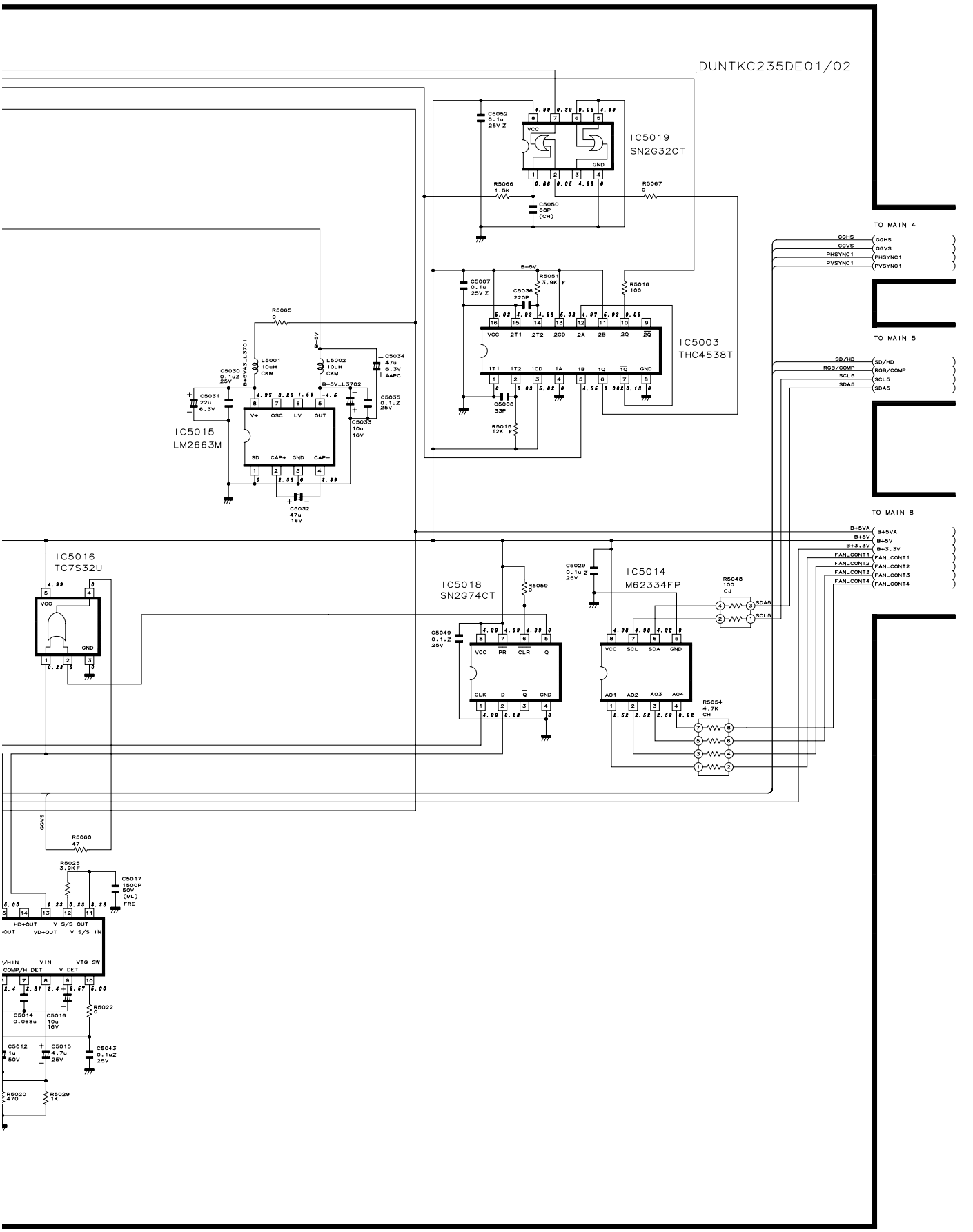




10	11	12	13	14	15	16	17	18	19

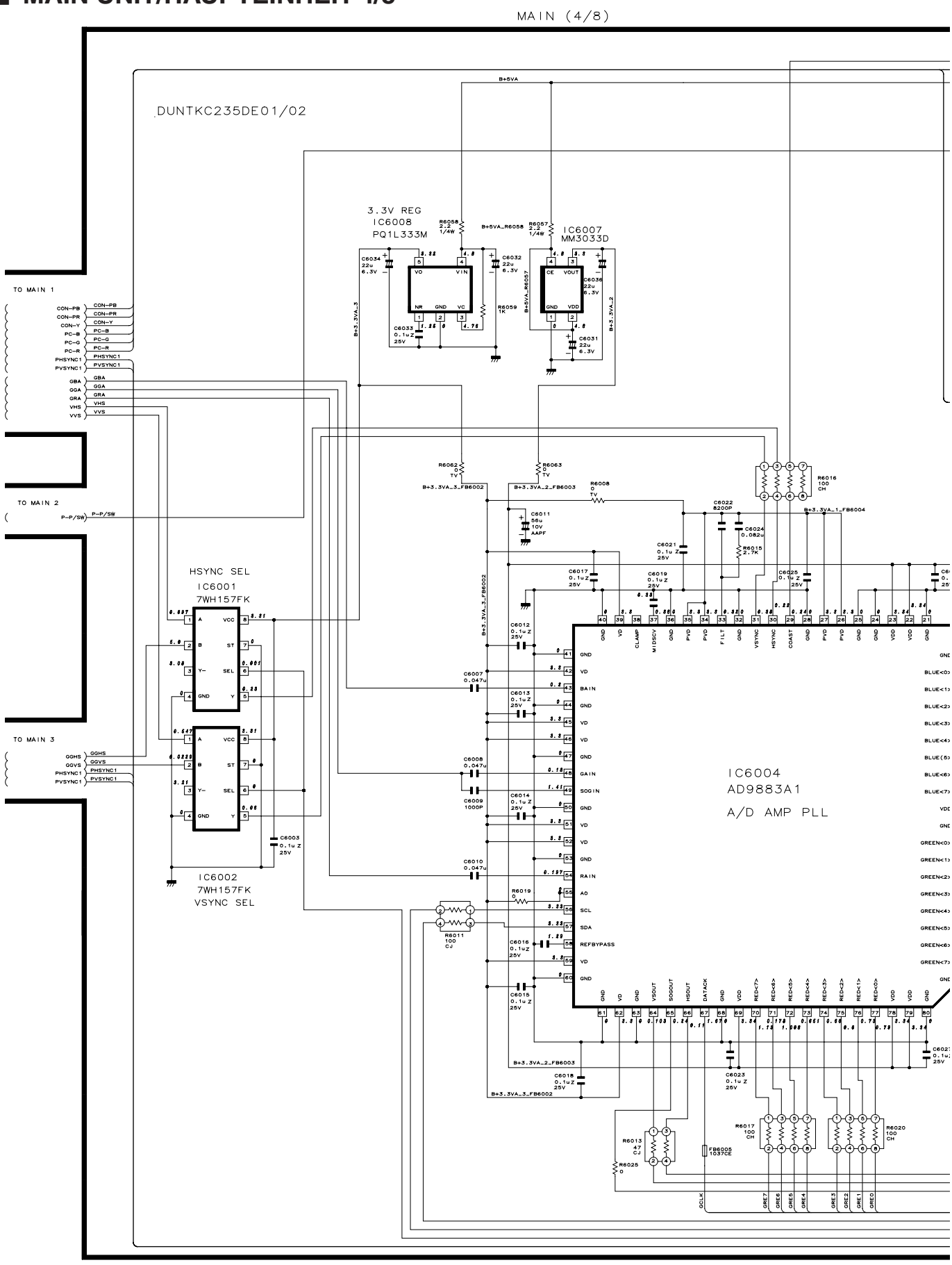
■ MAIN UNIT/HAUPTEINHEIT-3/8

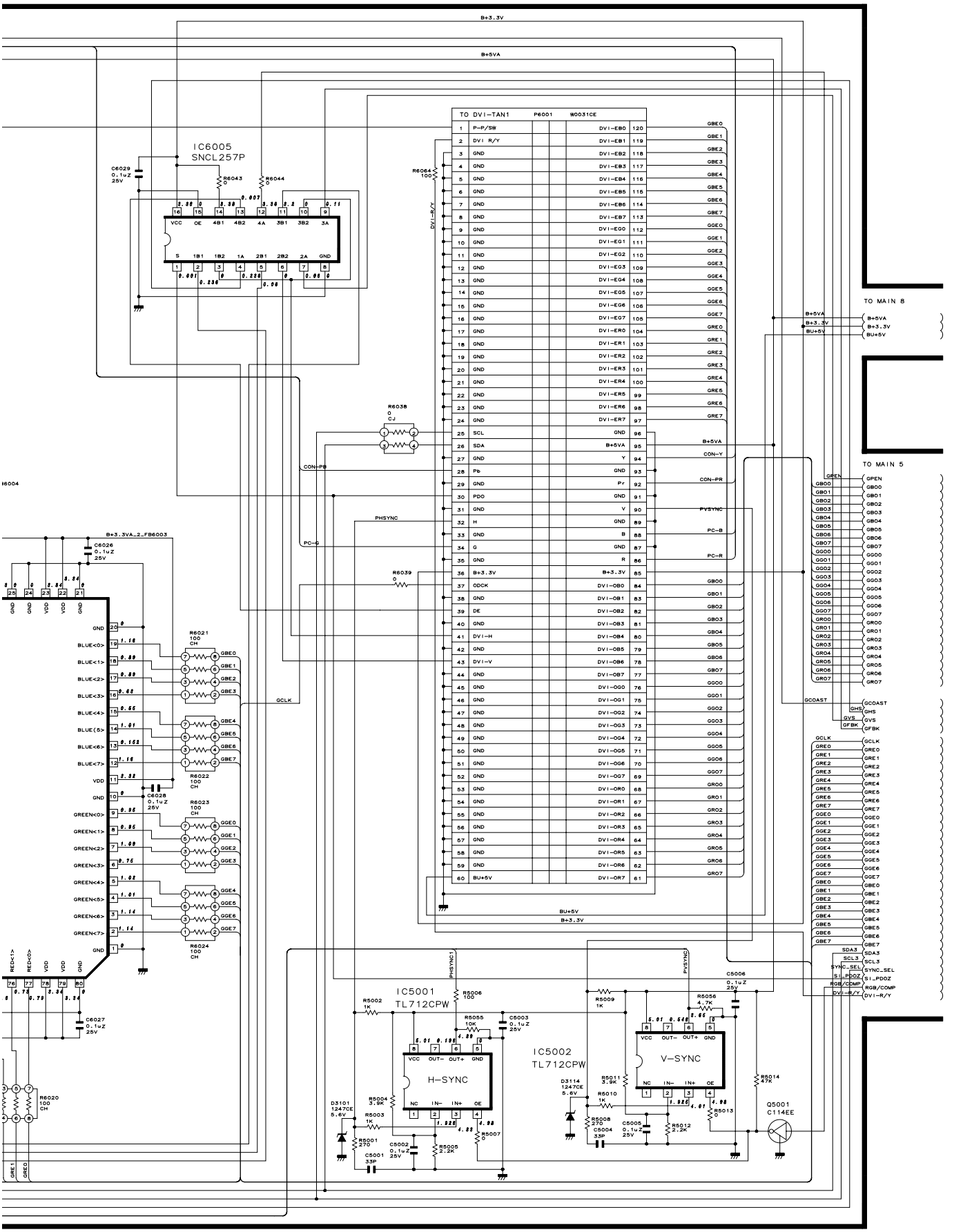




10	11	12	13	14	15	16	17	18	19

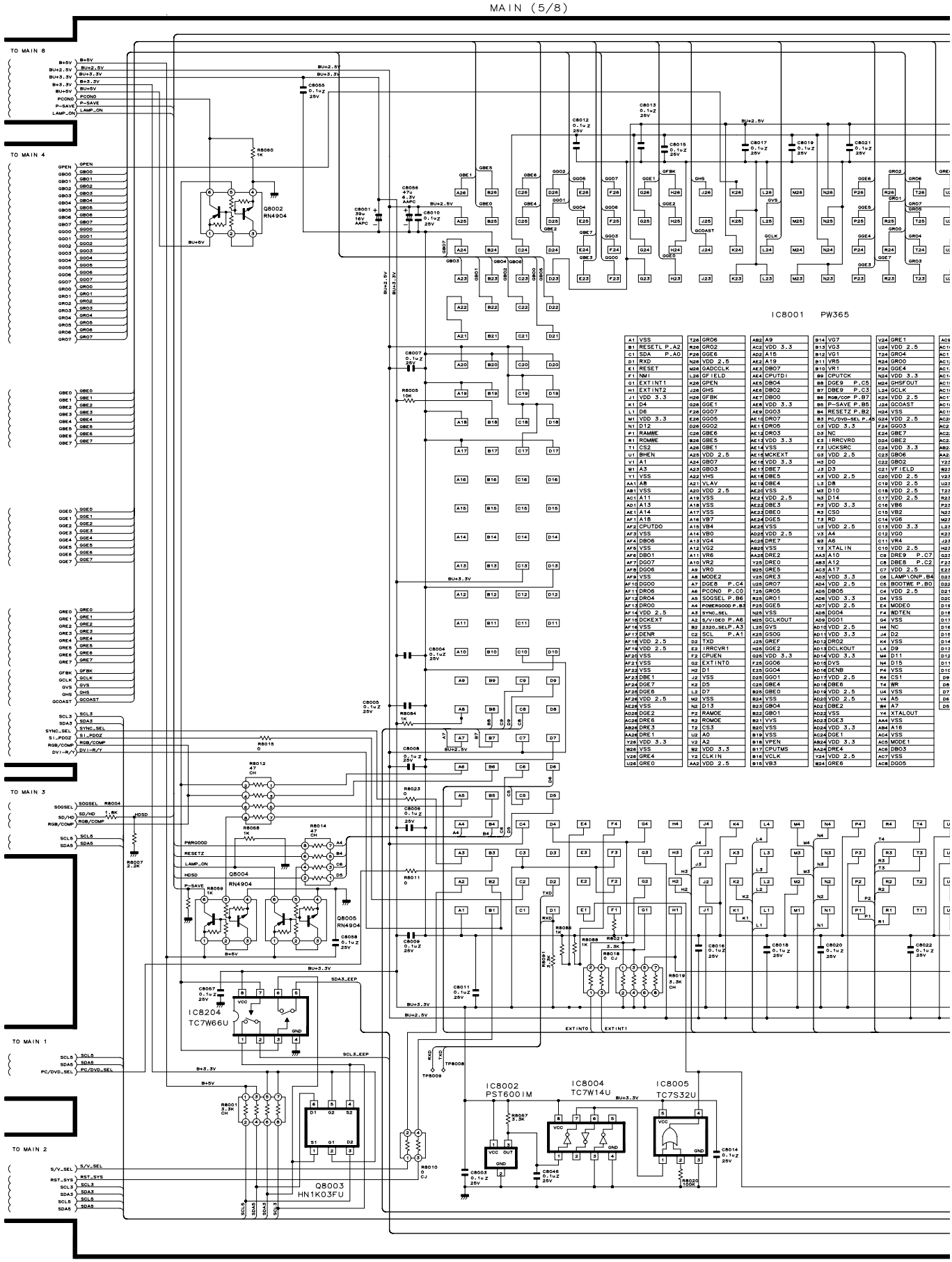
■ MAIN UNIT/HAUPTEINHEIT-4/8

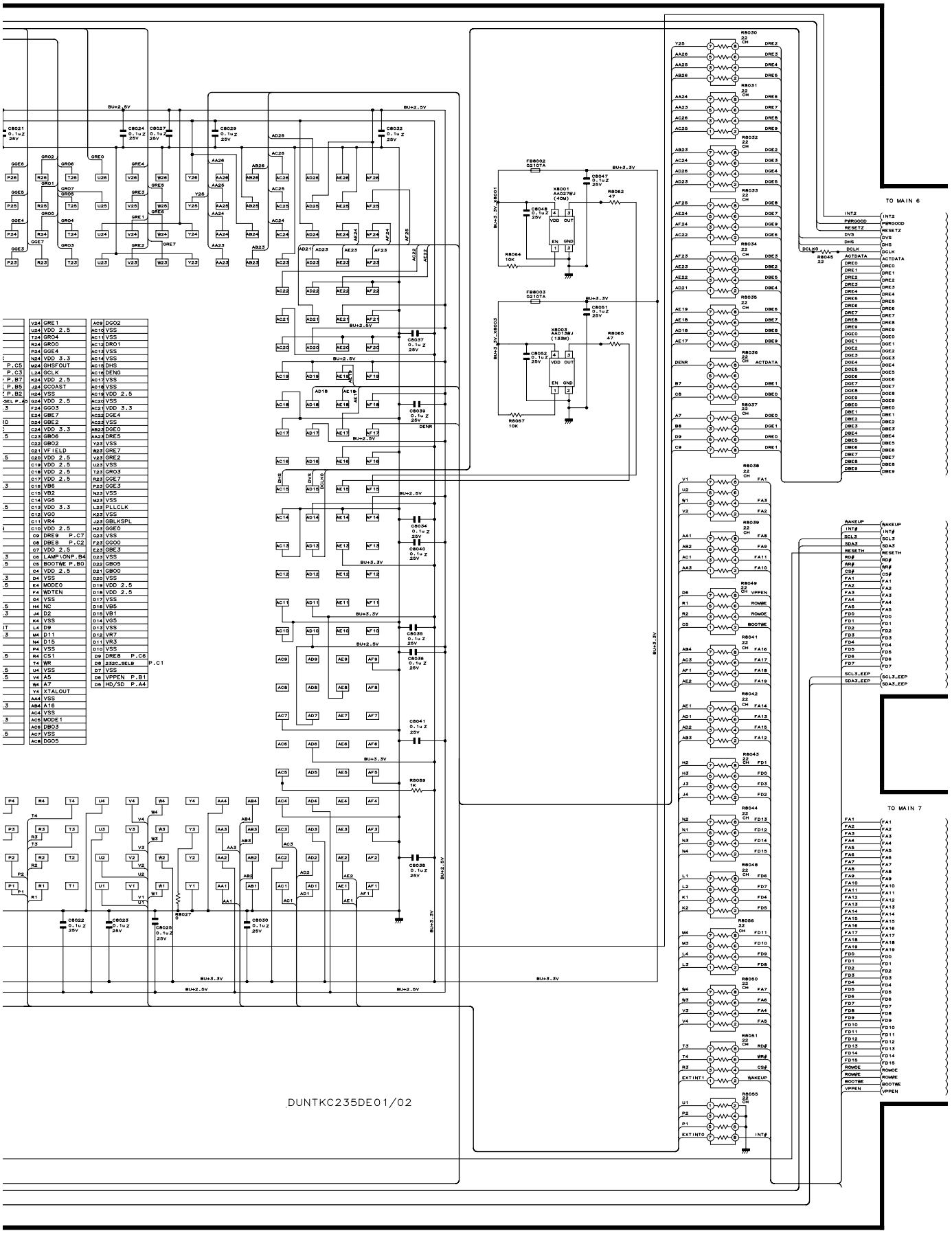




10	11	12	13	14	15	16	17	18	19

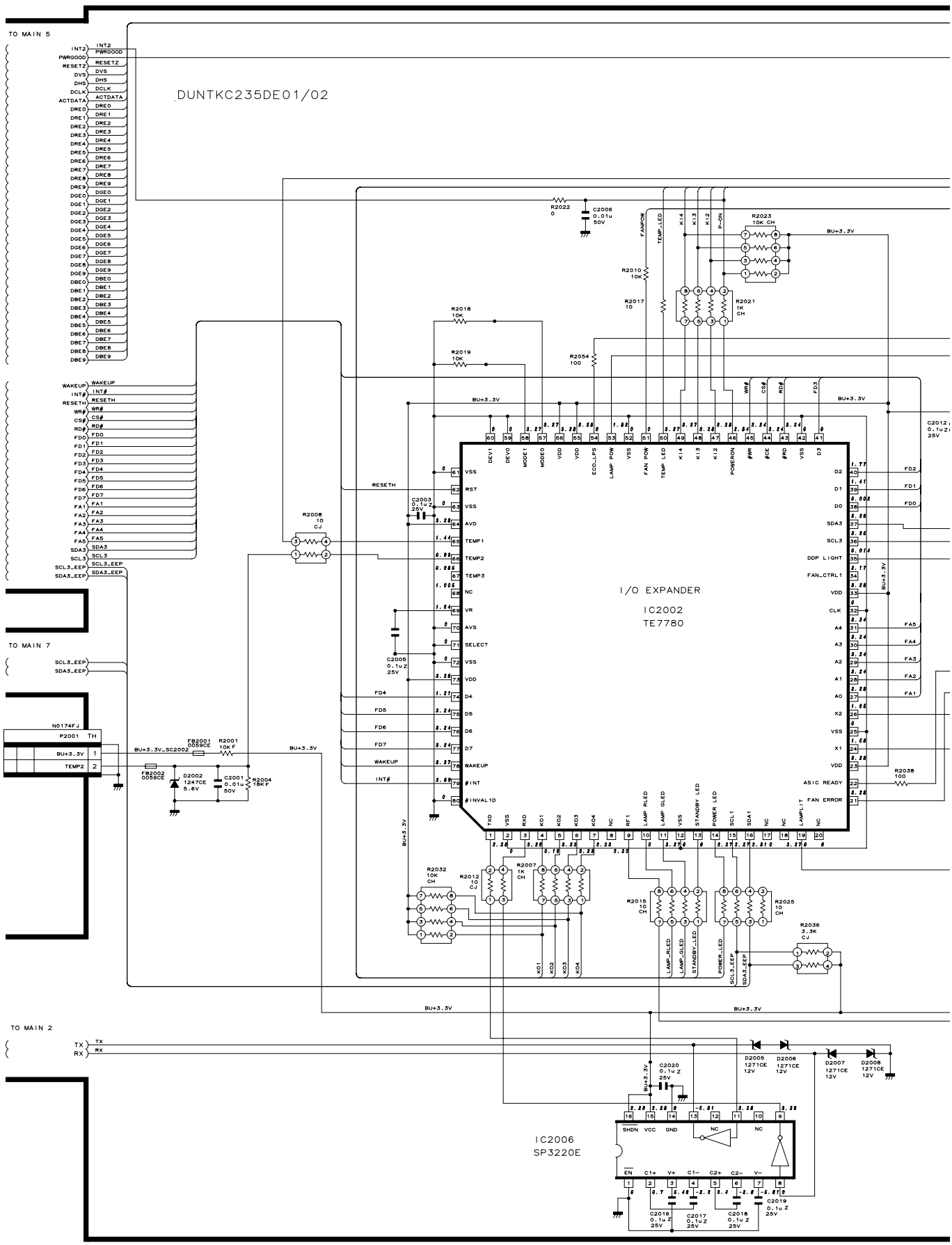
■ MAIN UNIT/HAUPTEINHEIT-5/8

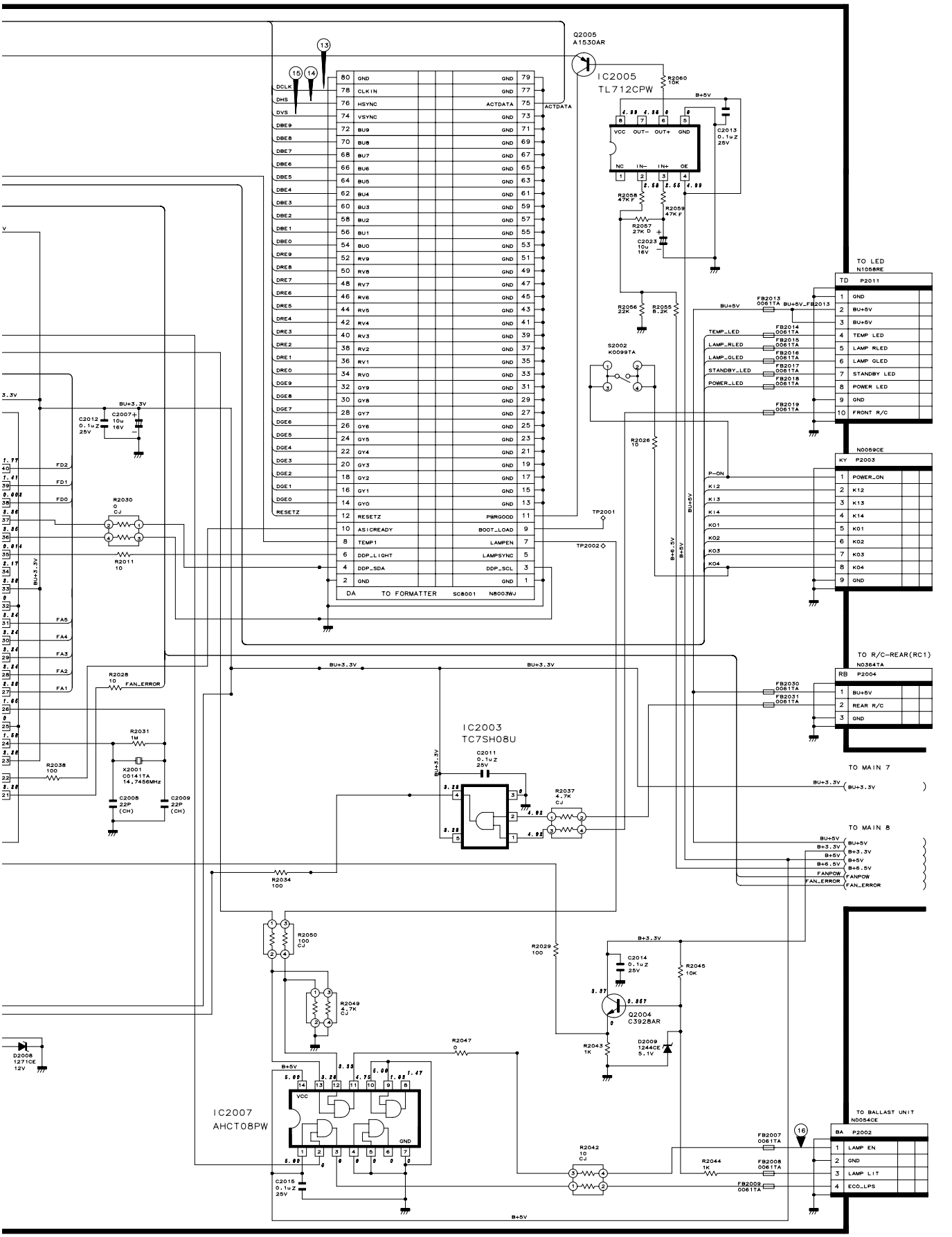




10	11	12	13	14	15	16	17	18	19

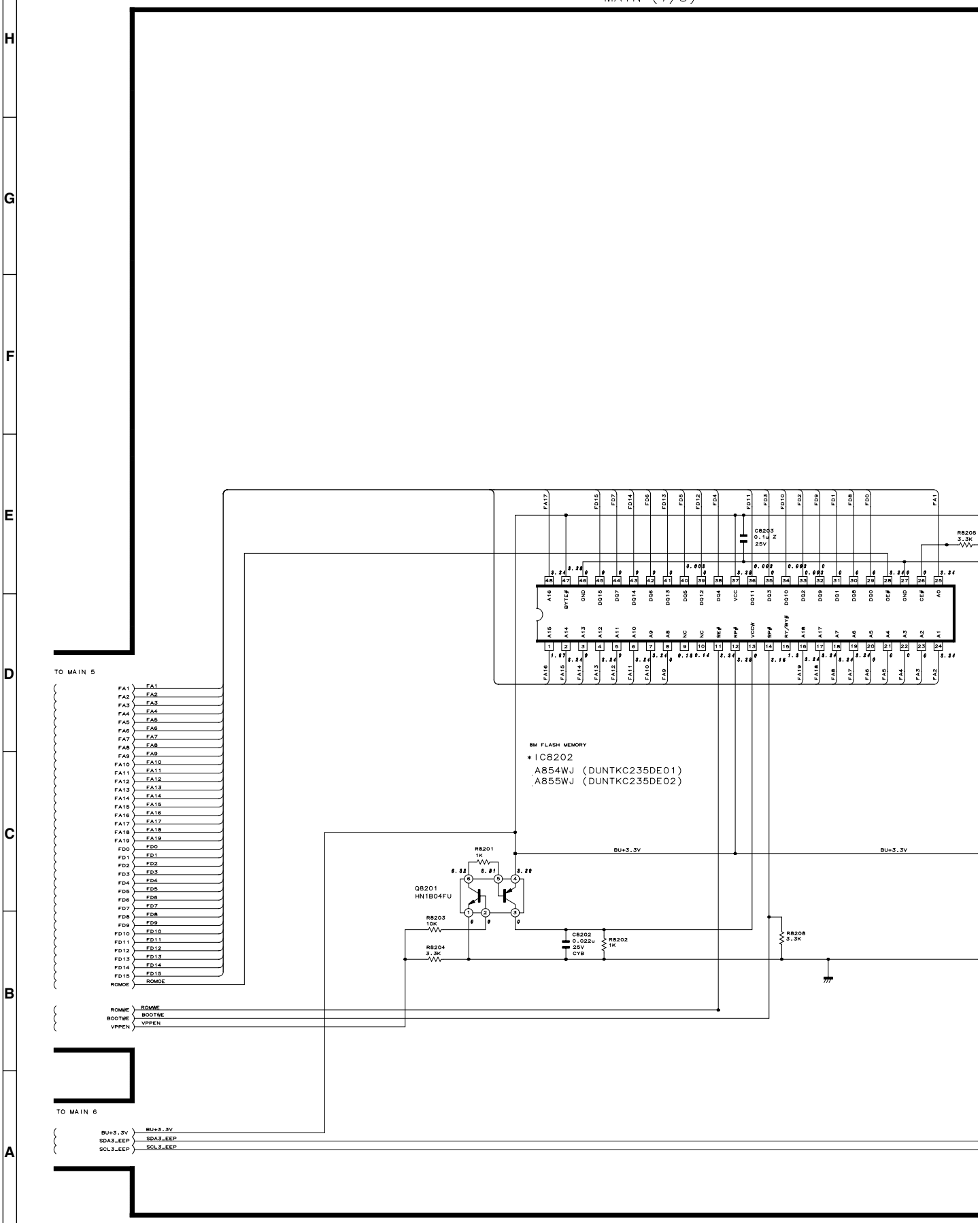
■ MAIN UNIT/HAUPTEINHEIT-6/8

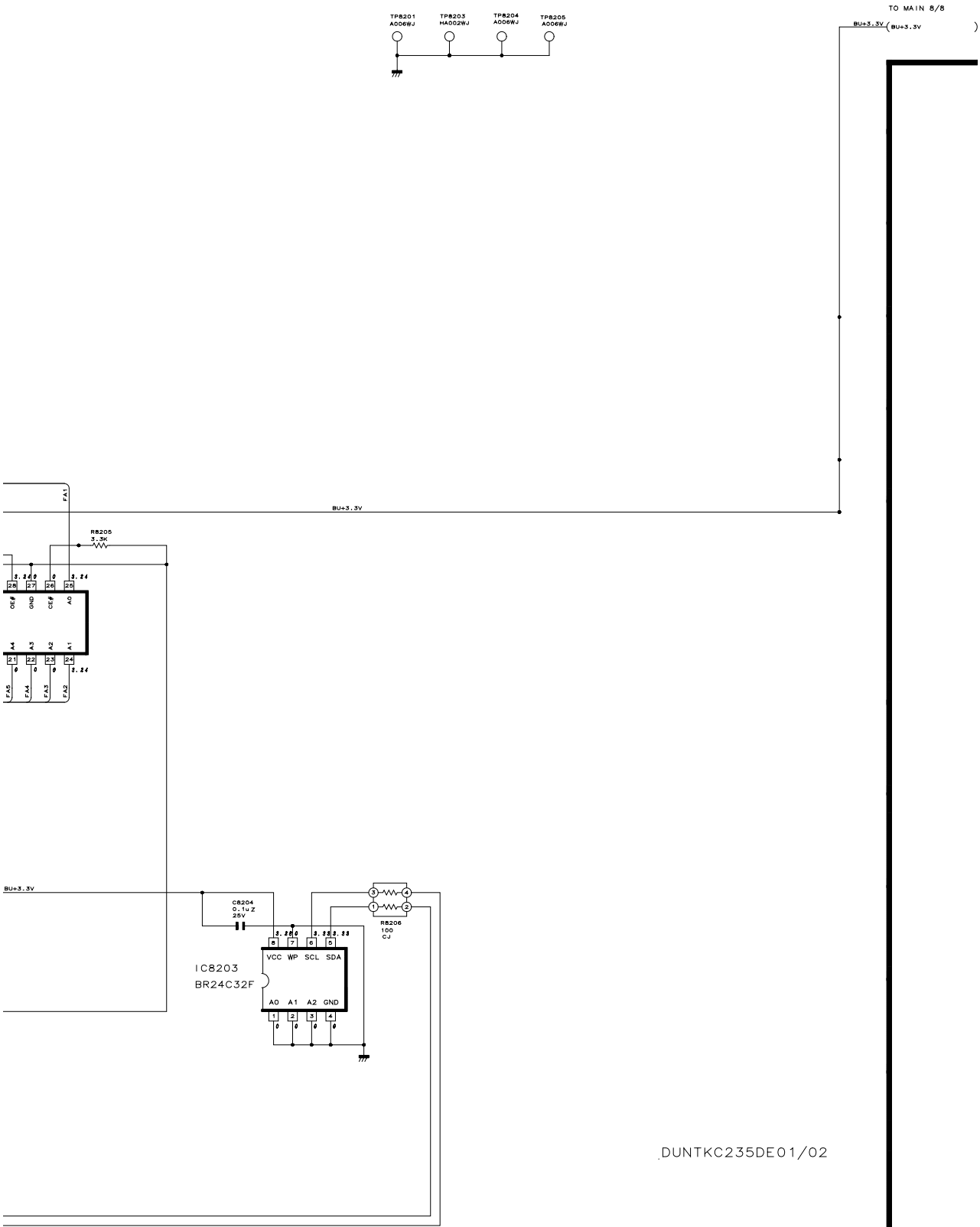




10	11	12	13	14	15	16	17	18	19

■ MAIN UNIT/HAUPTEINHEIT-7/8

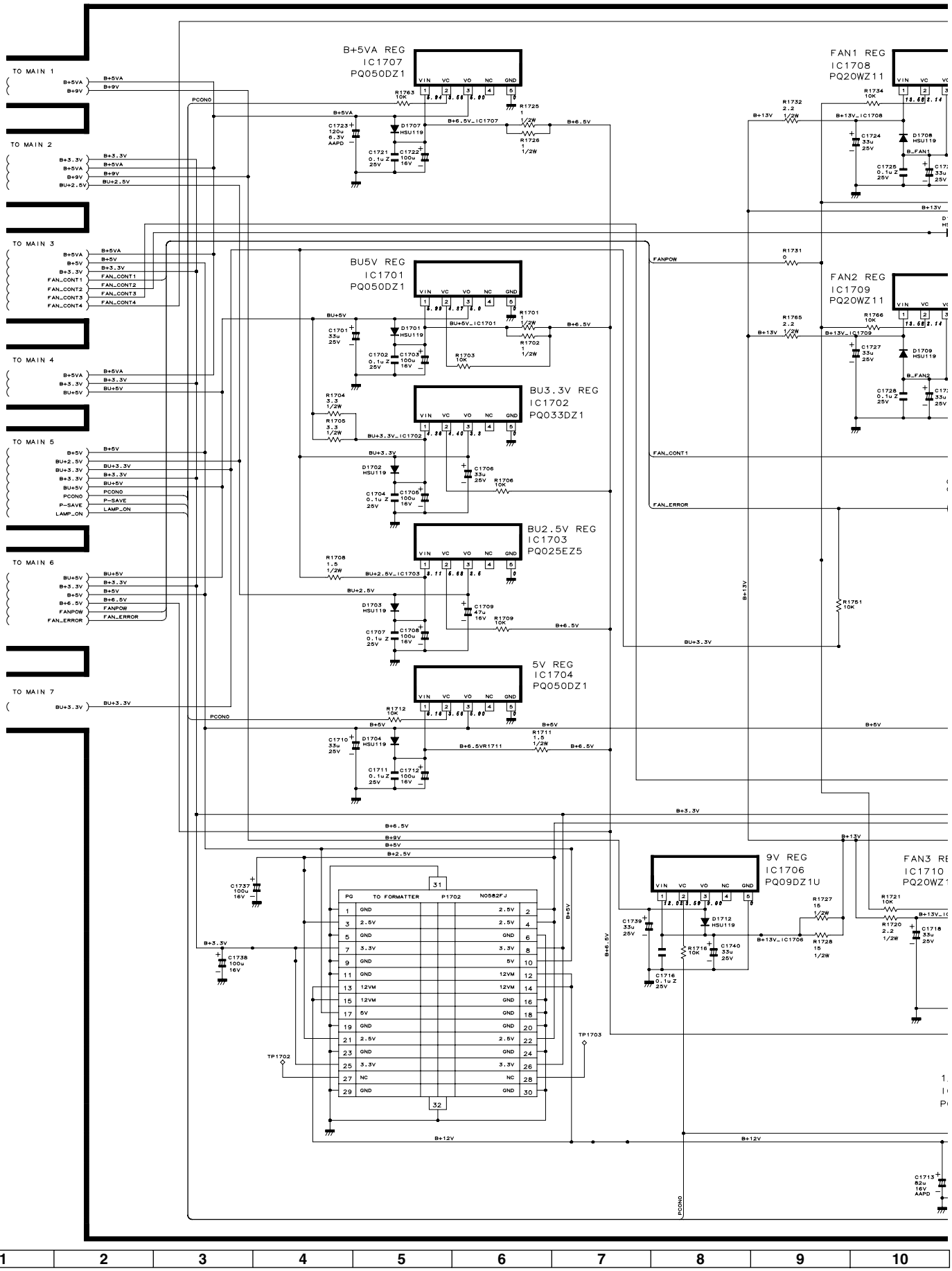


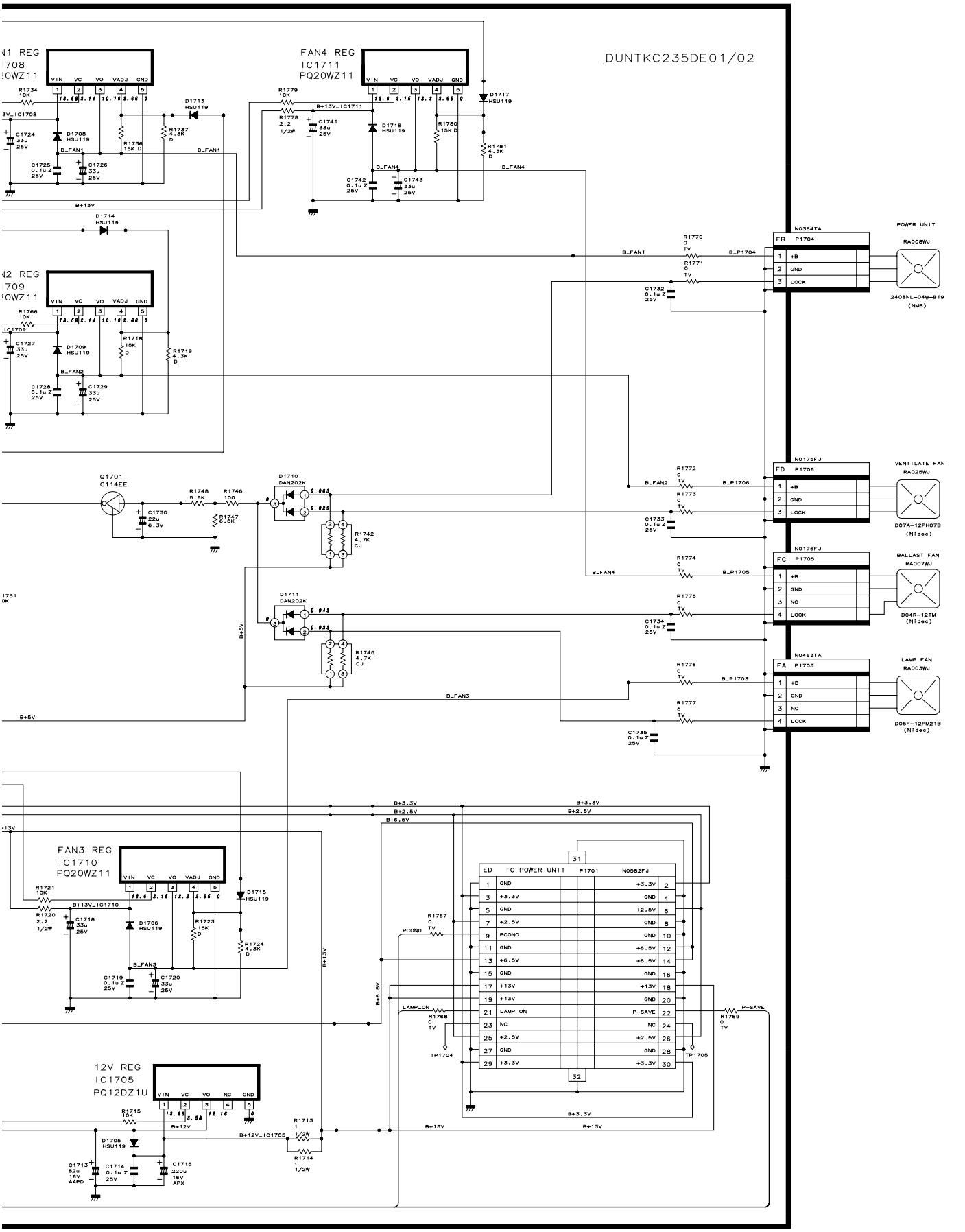


10	11	12	13	14	15	16	17	18	19

■ MAIN UNIT/HAUPTEINHEIT-8/8

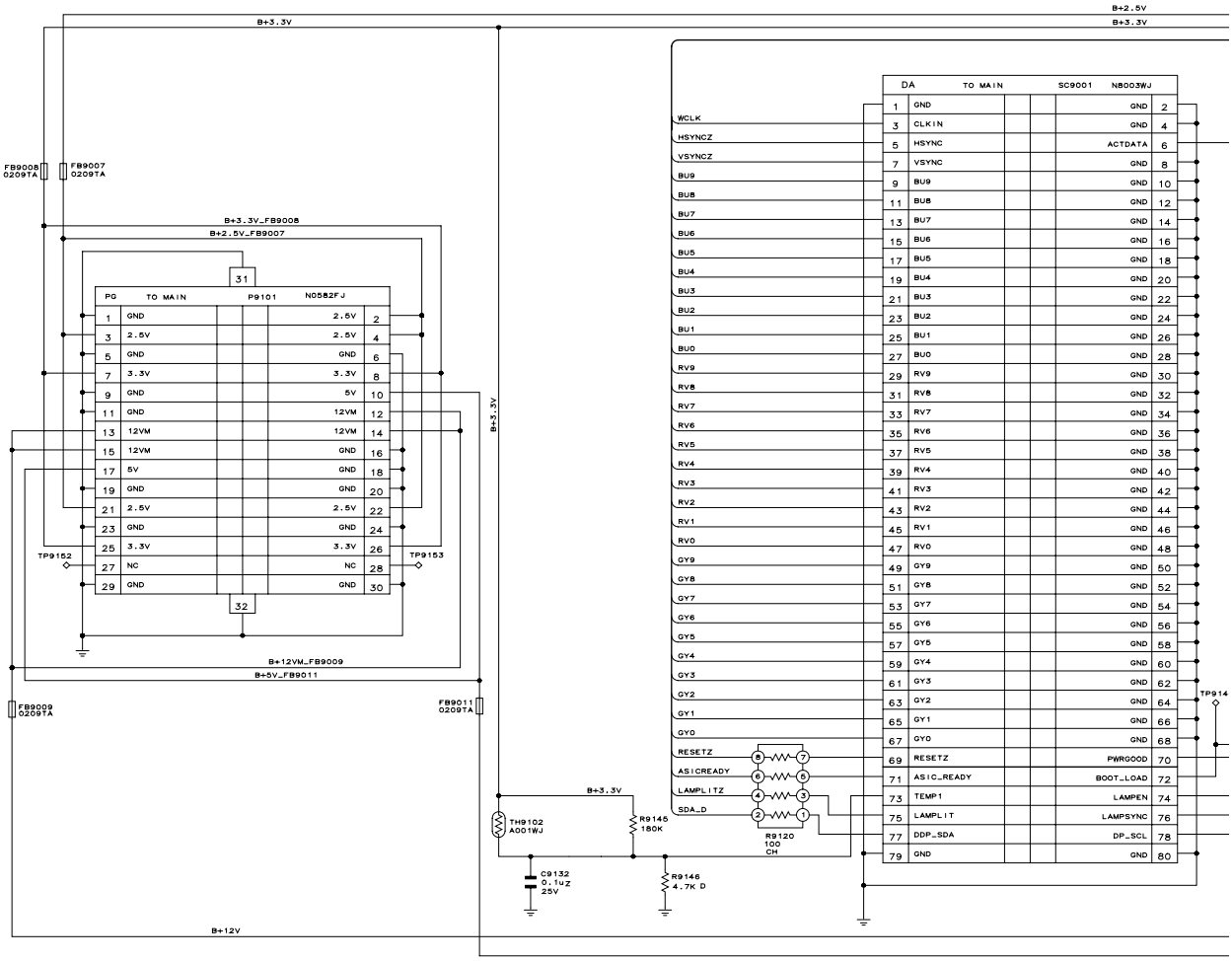
MAIN (8/8)

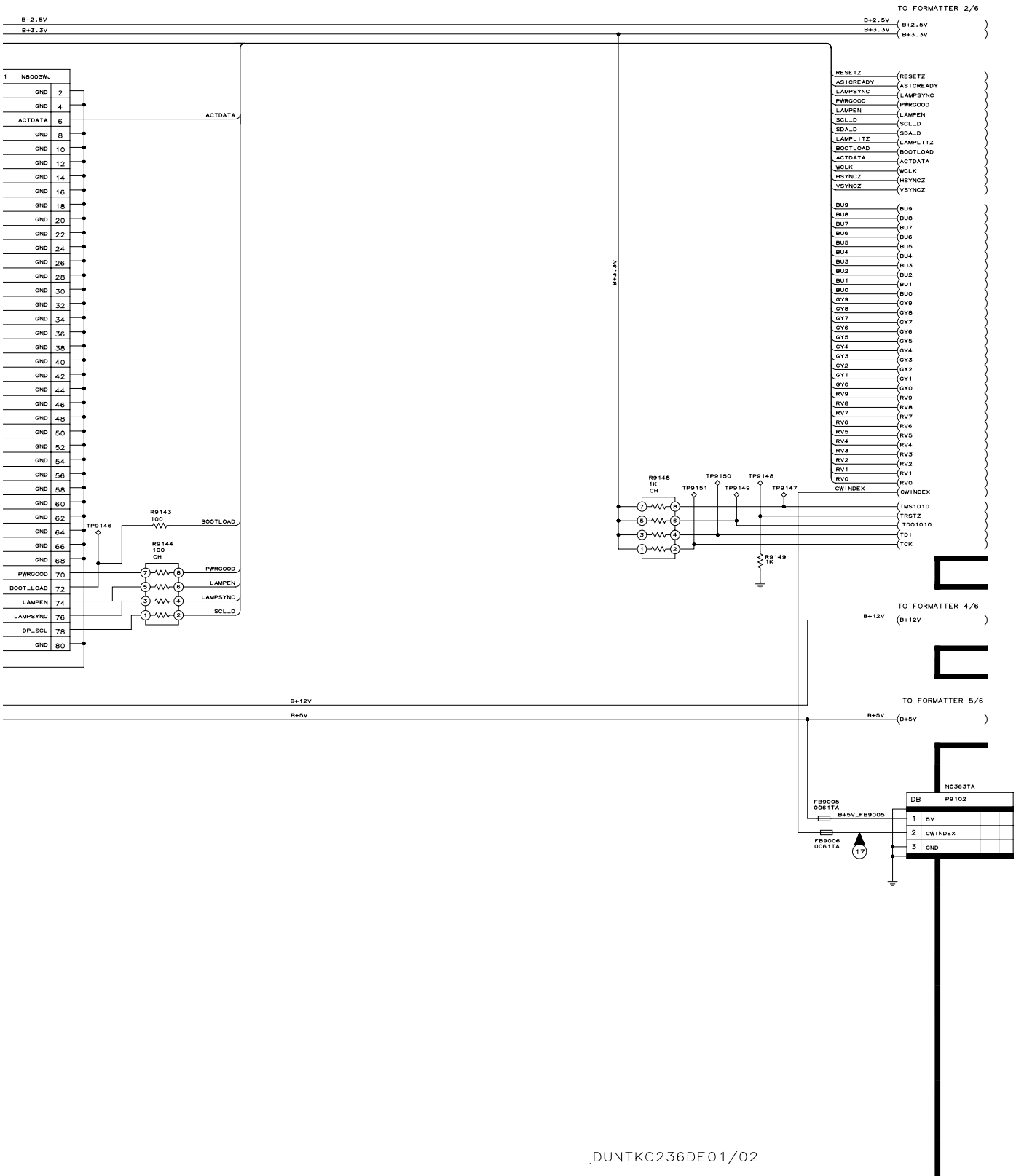



DUNTKC235DE01/02
FAN4 REG
IC1711
PQ20WZ11
FAN3 REG
IC1710
PQ20WZ11
12V REG
IC1705
PQ12DZ1U
POWER UNIT
VENTILATE FAN
BALLAST FAN
LAMP FAN
TO POWER UNIT P1701
B+13V
B+5V
B+3.3V
B+2.5V
B+6.5V
B+12V

■ FORMATTER UNIT/FORMATIEREINHEIT-1/6

FORMATTER (1/6)

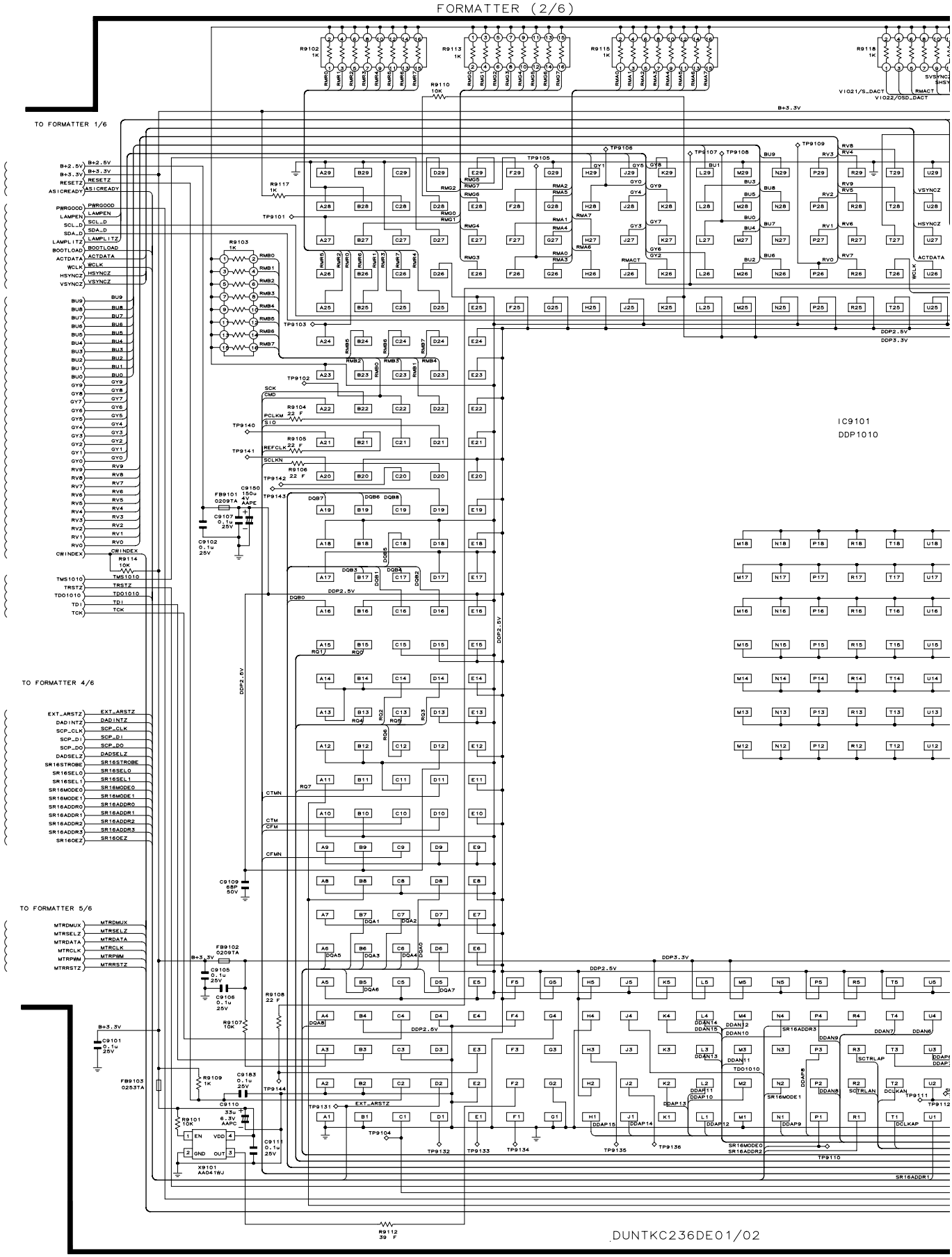


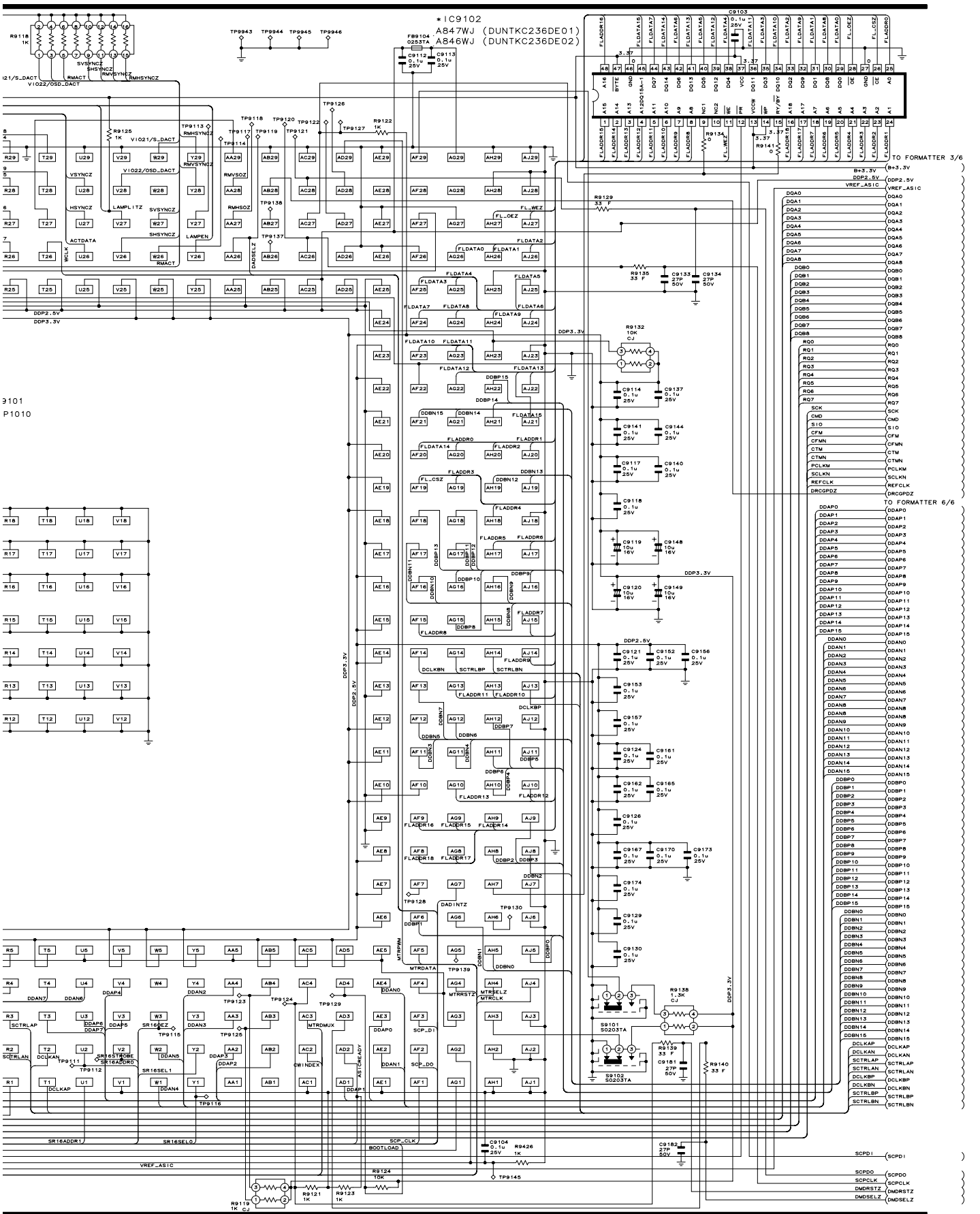


DUNTKC236DE01/02

10	11	12	13	14	15	16	17	18	19

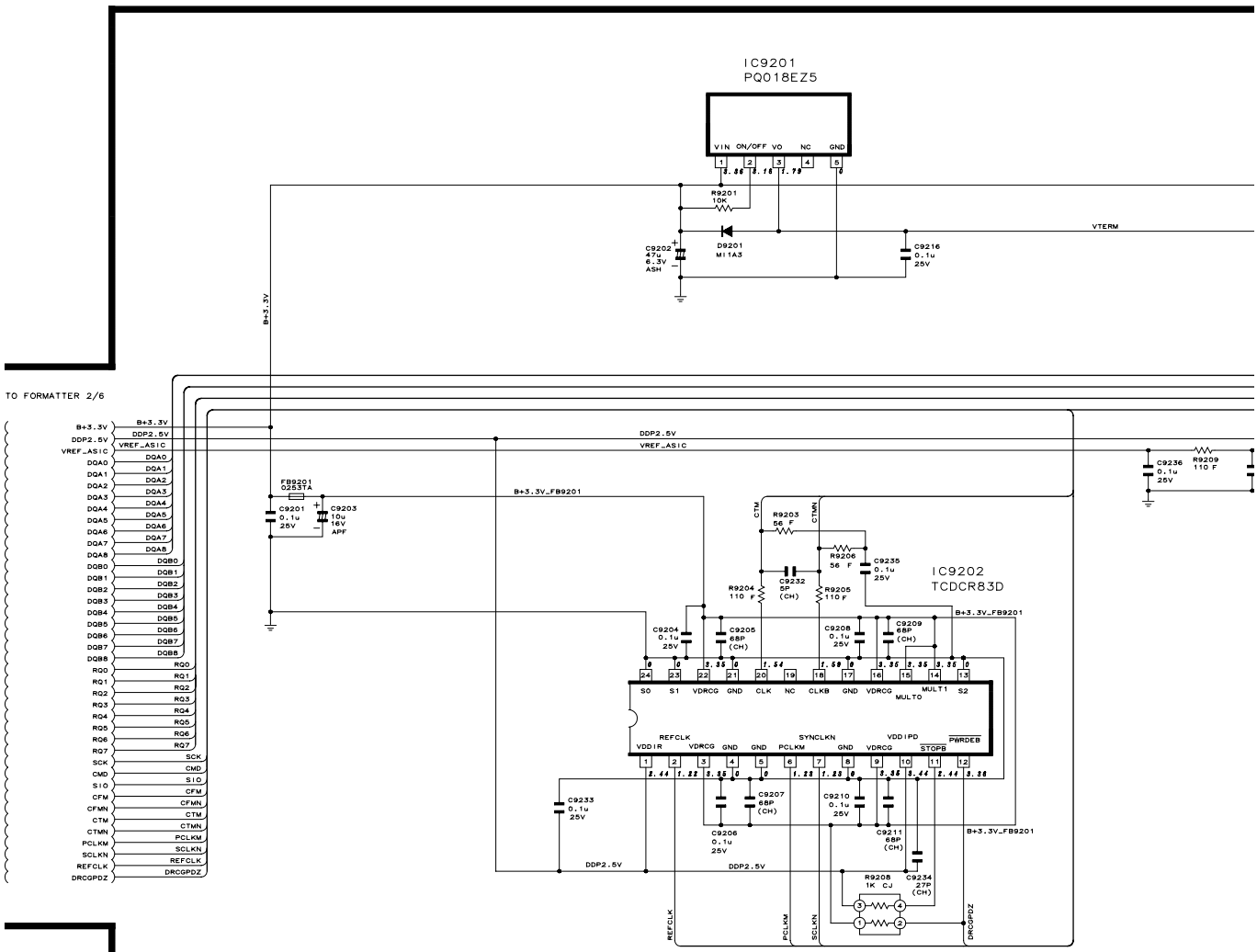
■ FORMATTER UNIT/FORMATIEREINHEIT-2/6

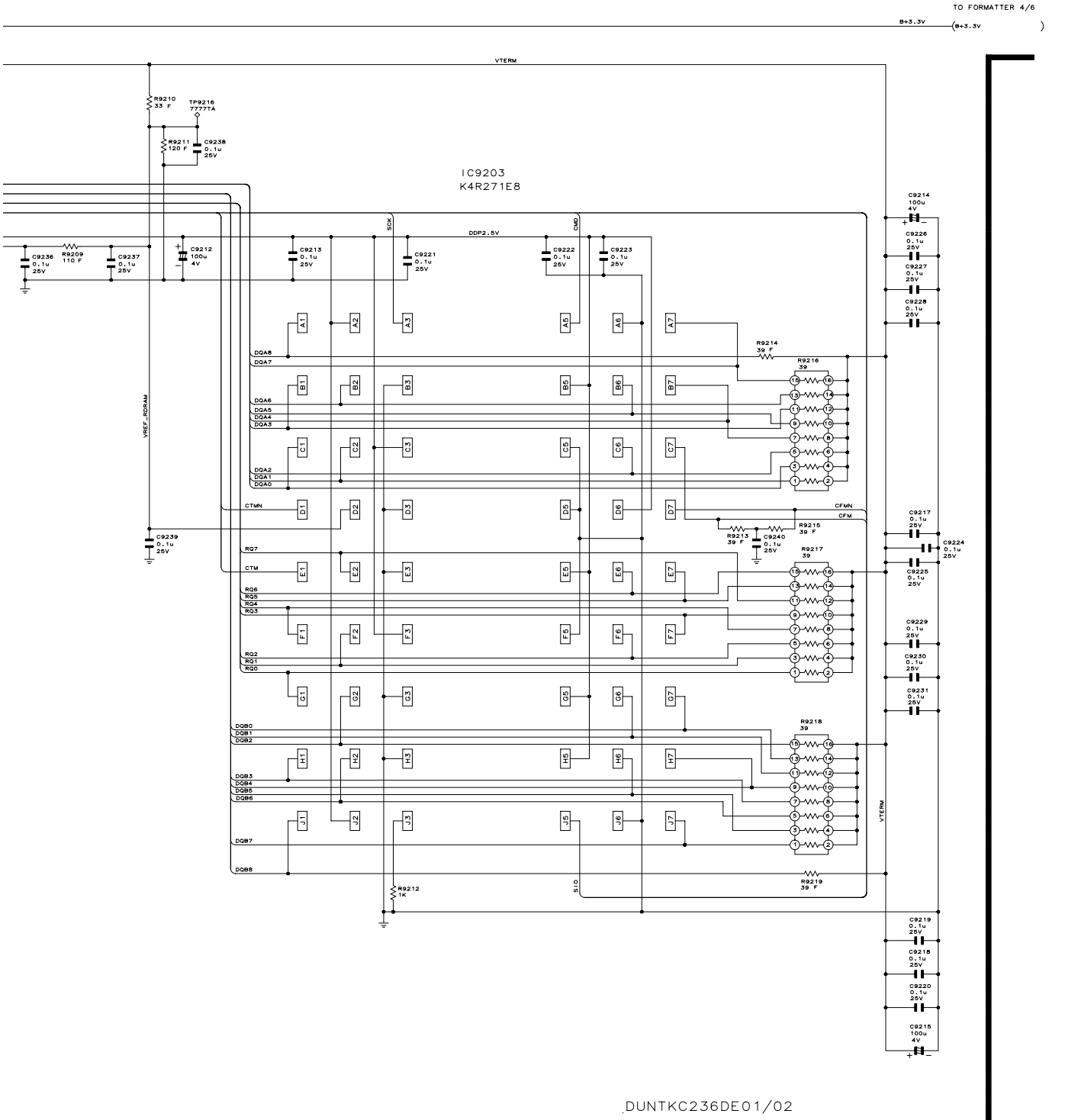



*IC9102
A847WJ (DUNTKC236DE01)
A846WJ (DUNTKC236DE02)
TO FORMATTER 3/6
TO FORMATTER 6/6
DDP2.5V
DDP3.3V
VREF_ASIC
B+3.3V
SCPDI
SCPDO
SCPCLK
DMDRSTZ
DMDSELZ

■ FORMATTER UNIT/FORMATIEREINHEIT-3/6

FORMATTER (3/6)

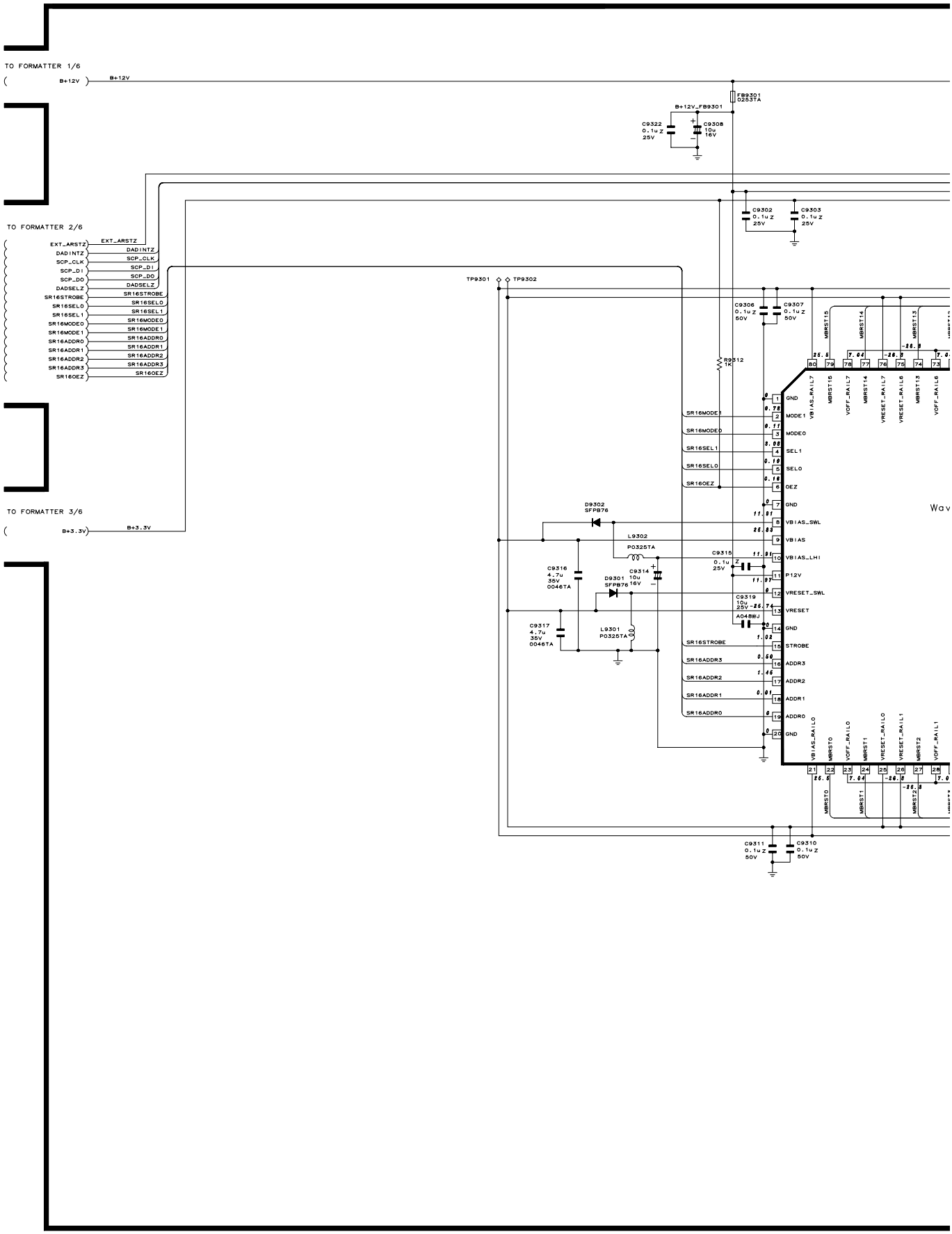


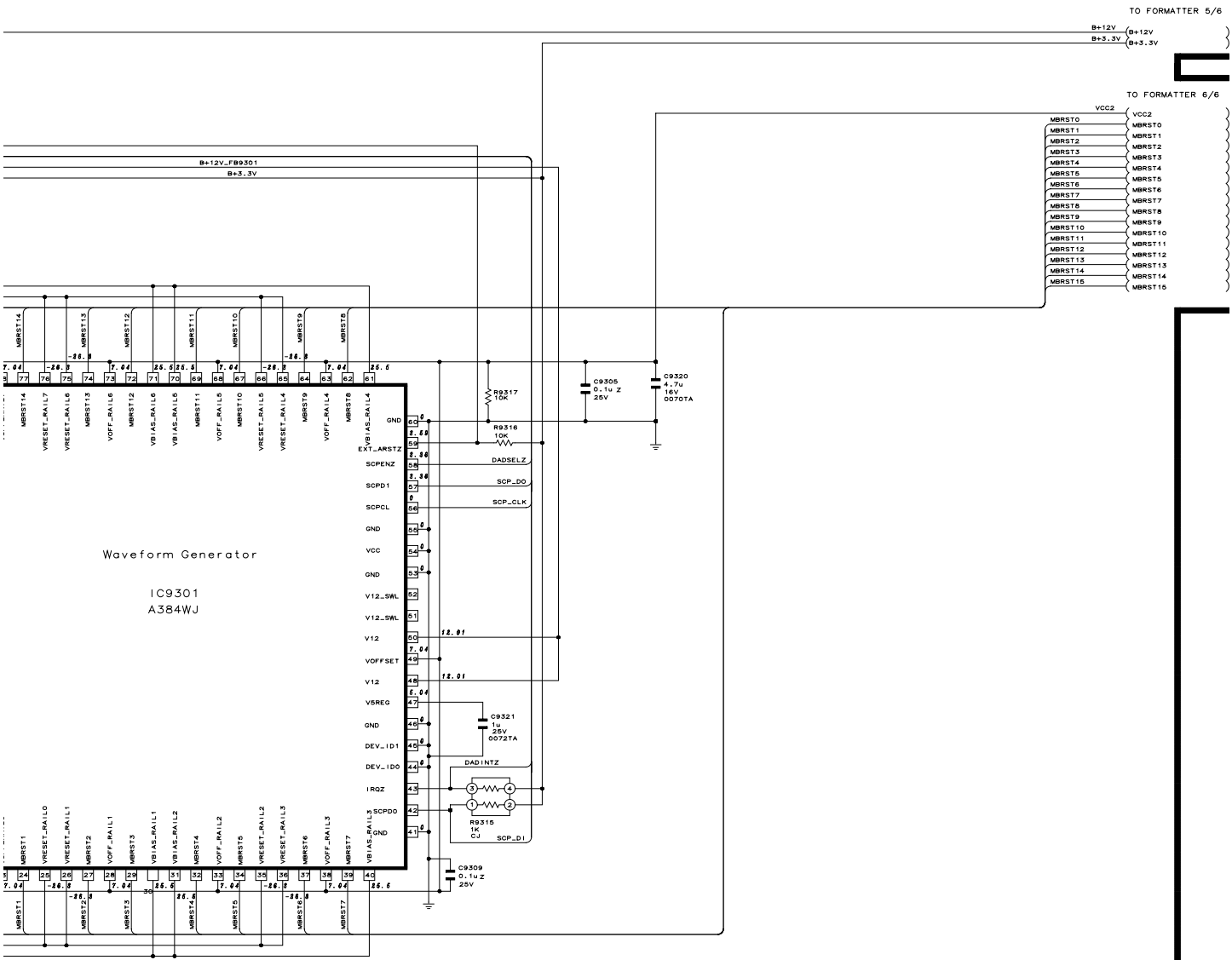


10	11	12	13	14	15	16	17	18	19

■ FORMATTER UNIT/FORMATIEREINHEIT-4/6

FORMATTER (4/6)

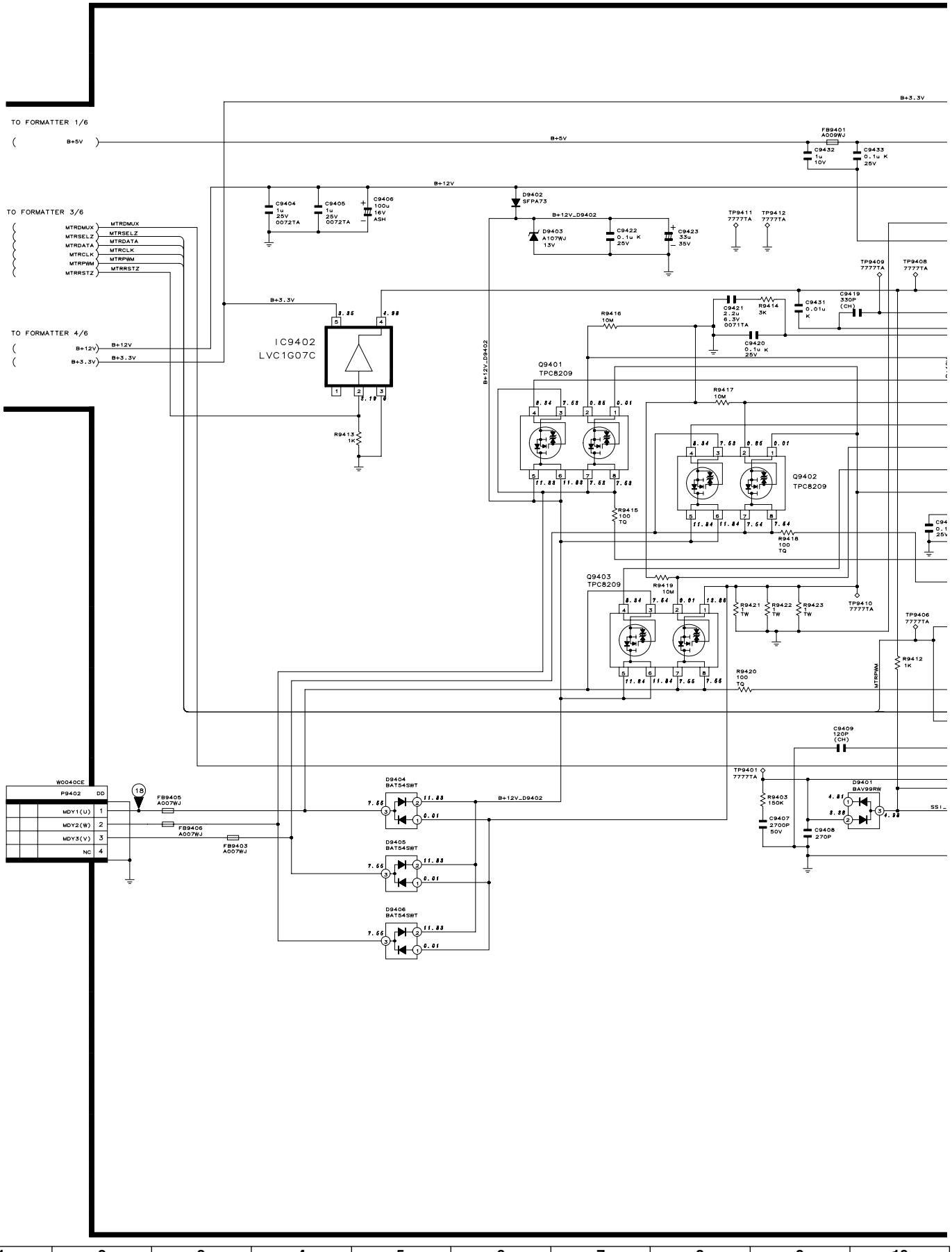


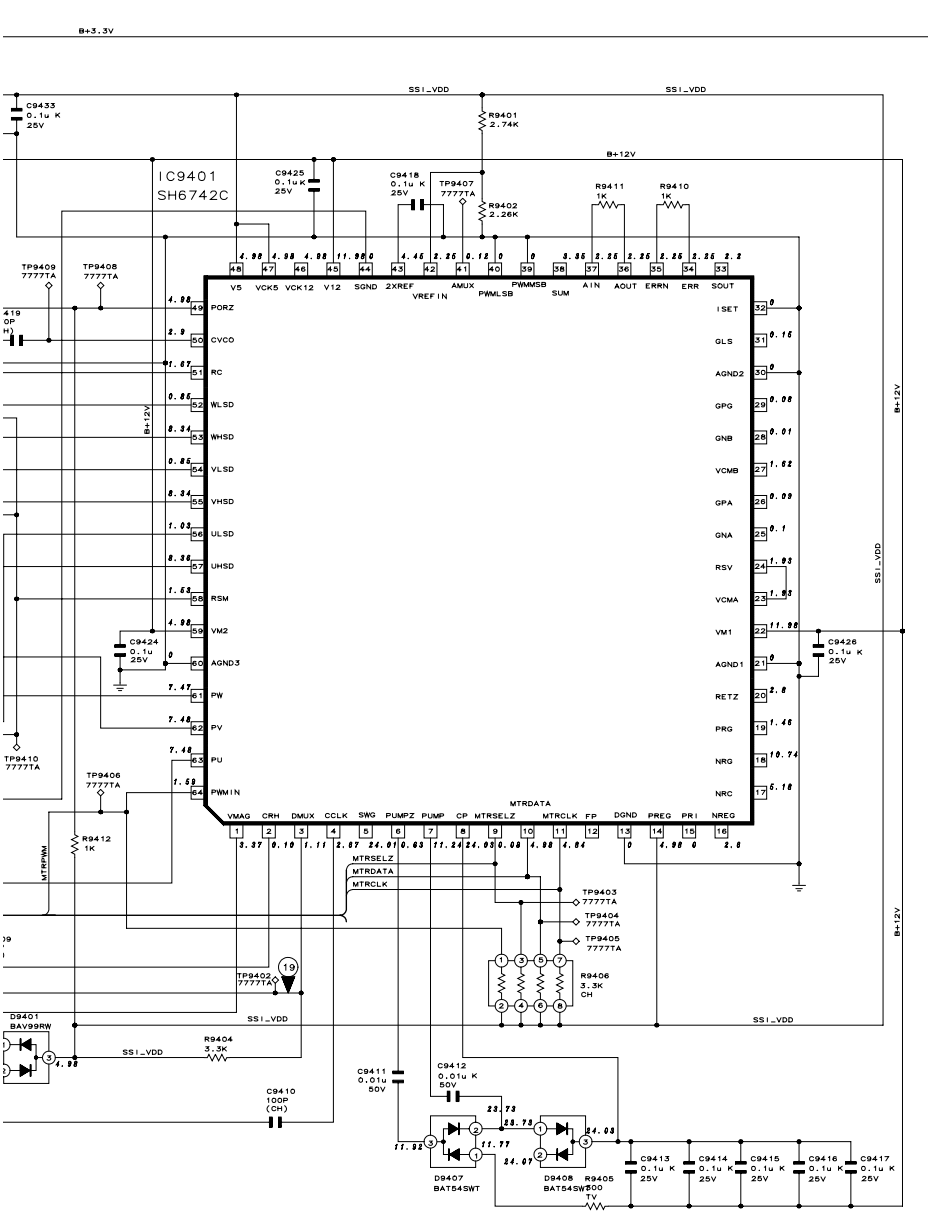


10	11	12	13	14	15	16	17	18	19

■ FORMATTER UNIT/FORMATIEREINHEIT-5/6

FORMATTER (5/6)



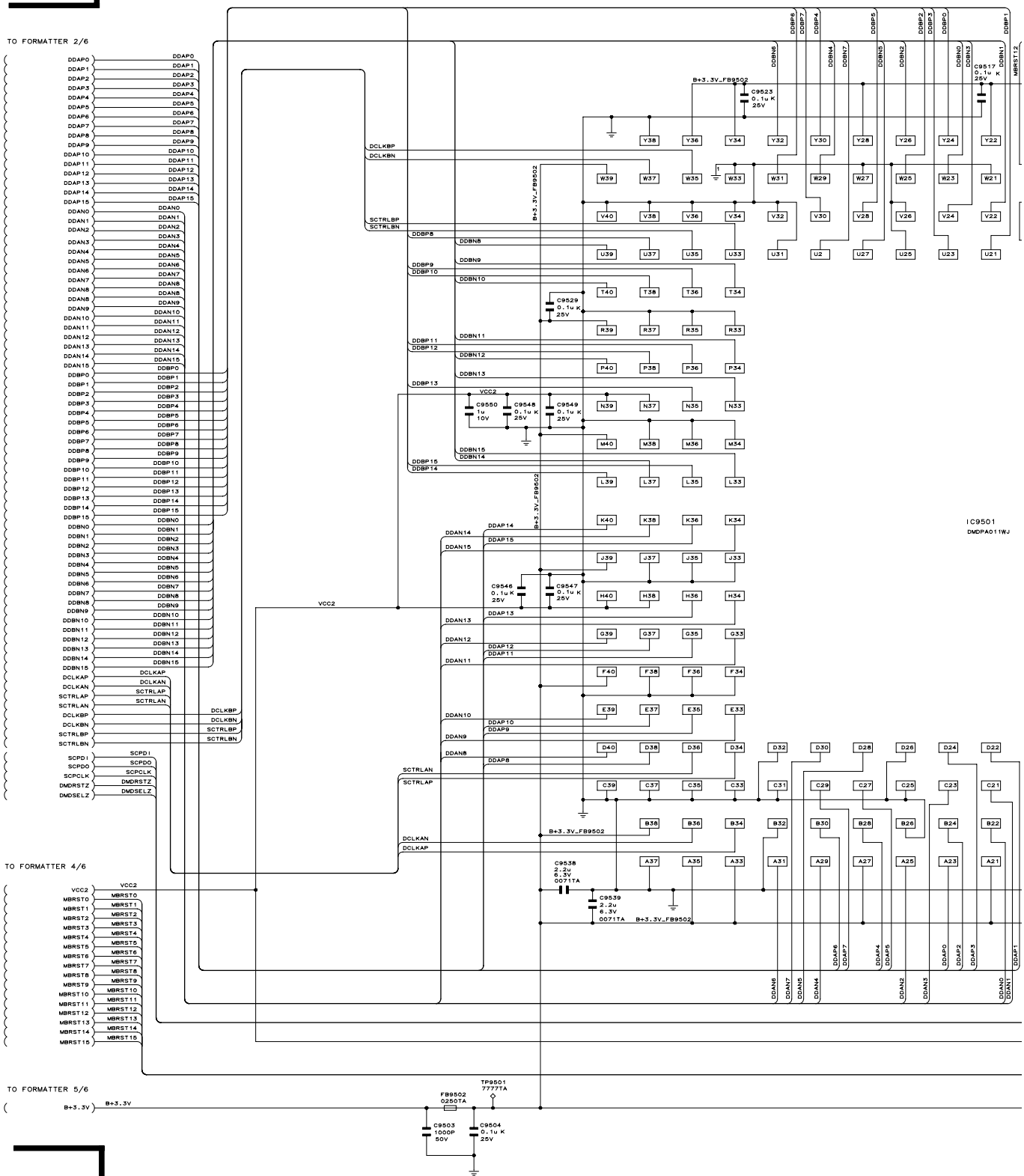


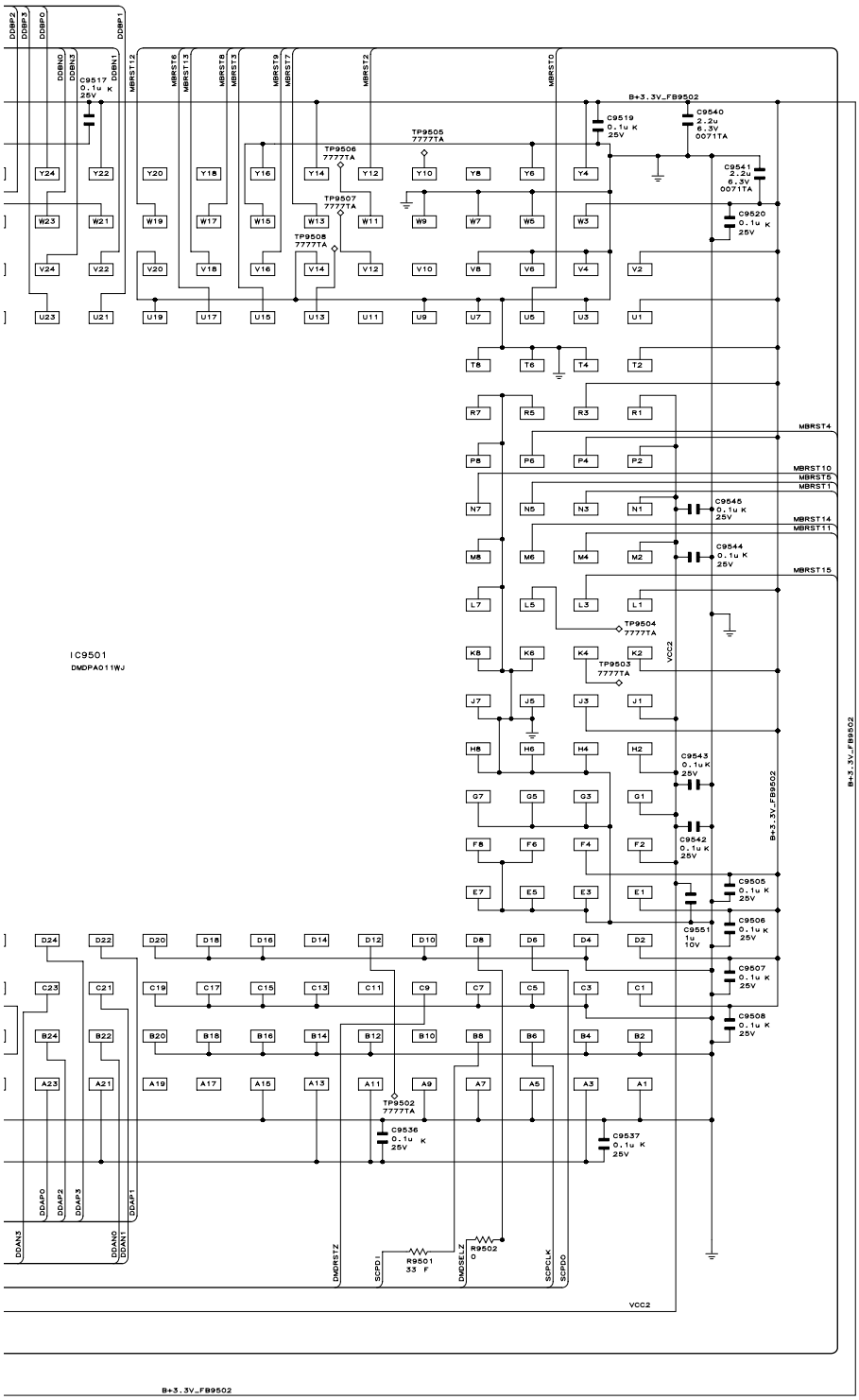
DUNTKC236DE01/02

10	11	12	13	14	15	16	17	18	19

■ FORMATTER UNIT/FORMATIEREINHEIT-6/6

FORMATTER (6/6)

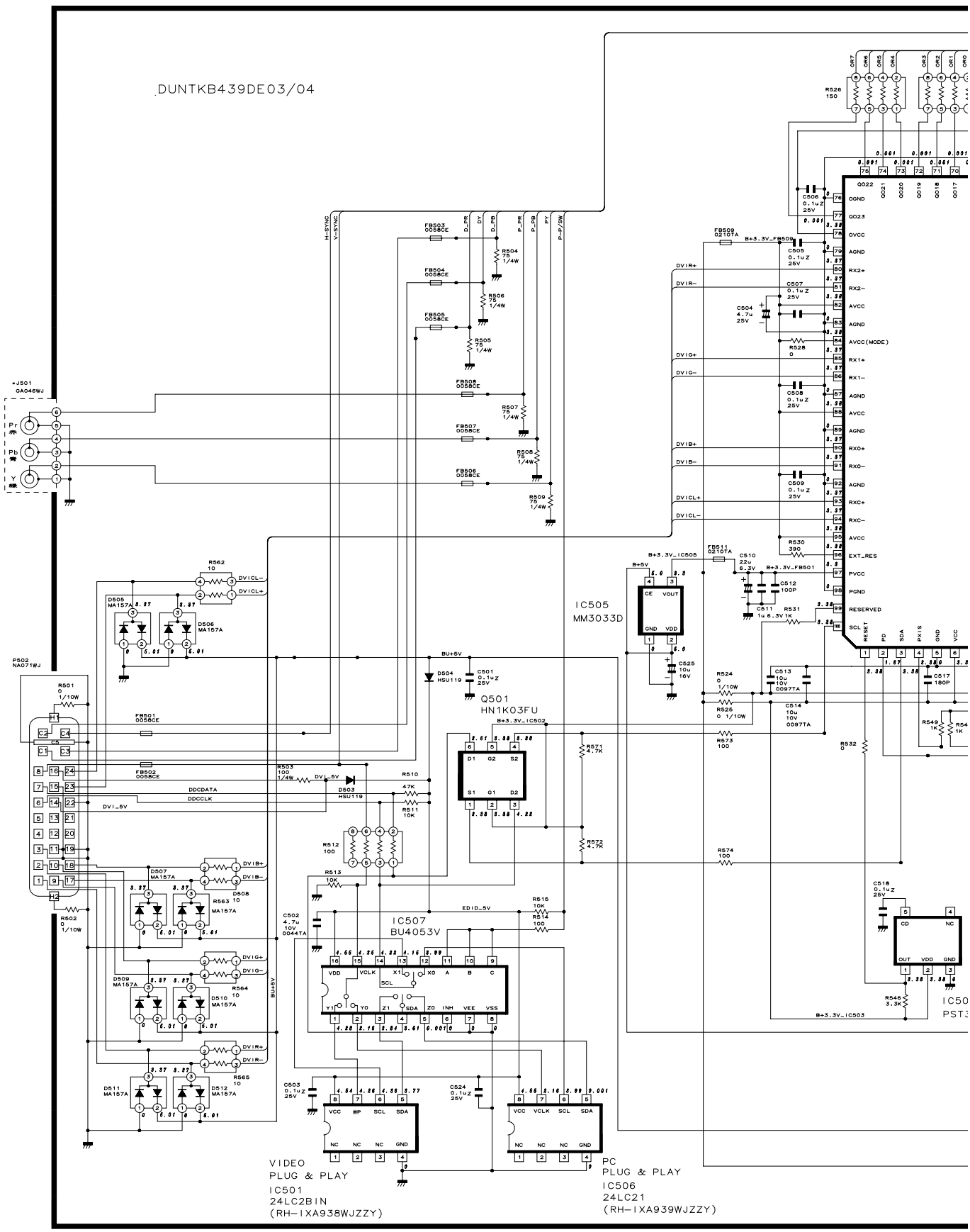


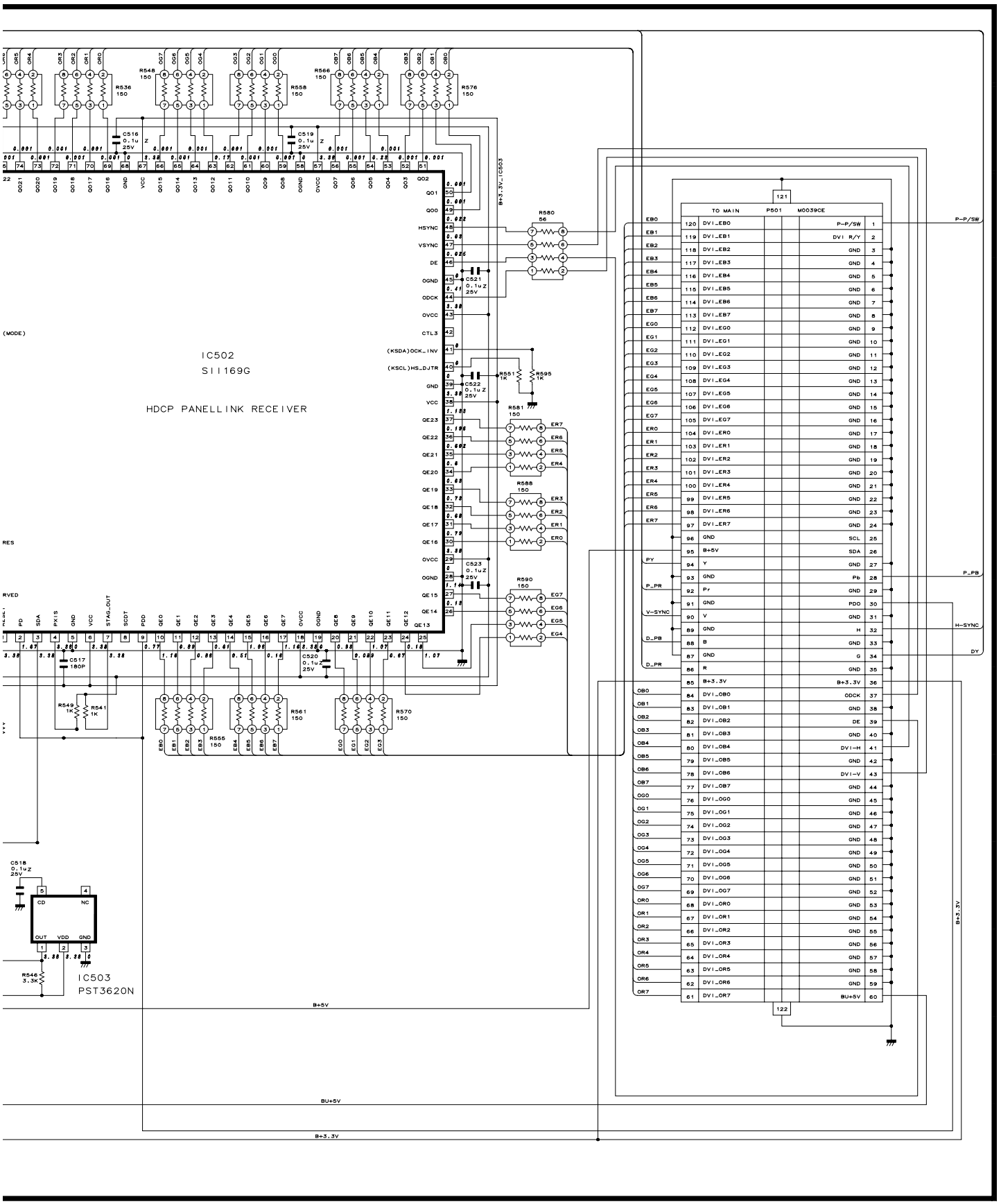


DUNTKC236DE01/02

10	11	12	13	14	15	16	17	18	19

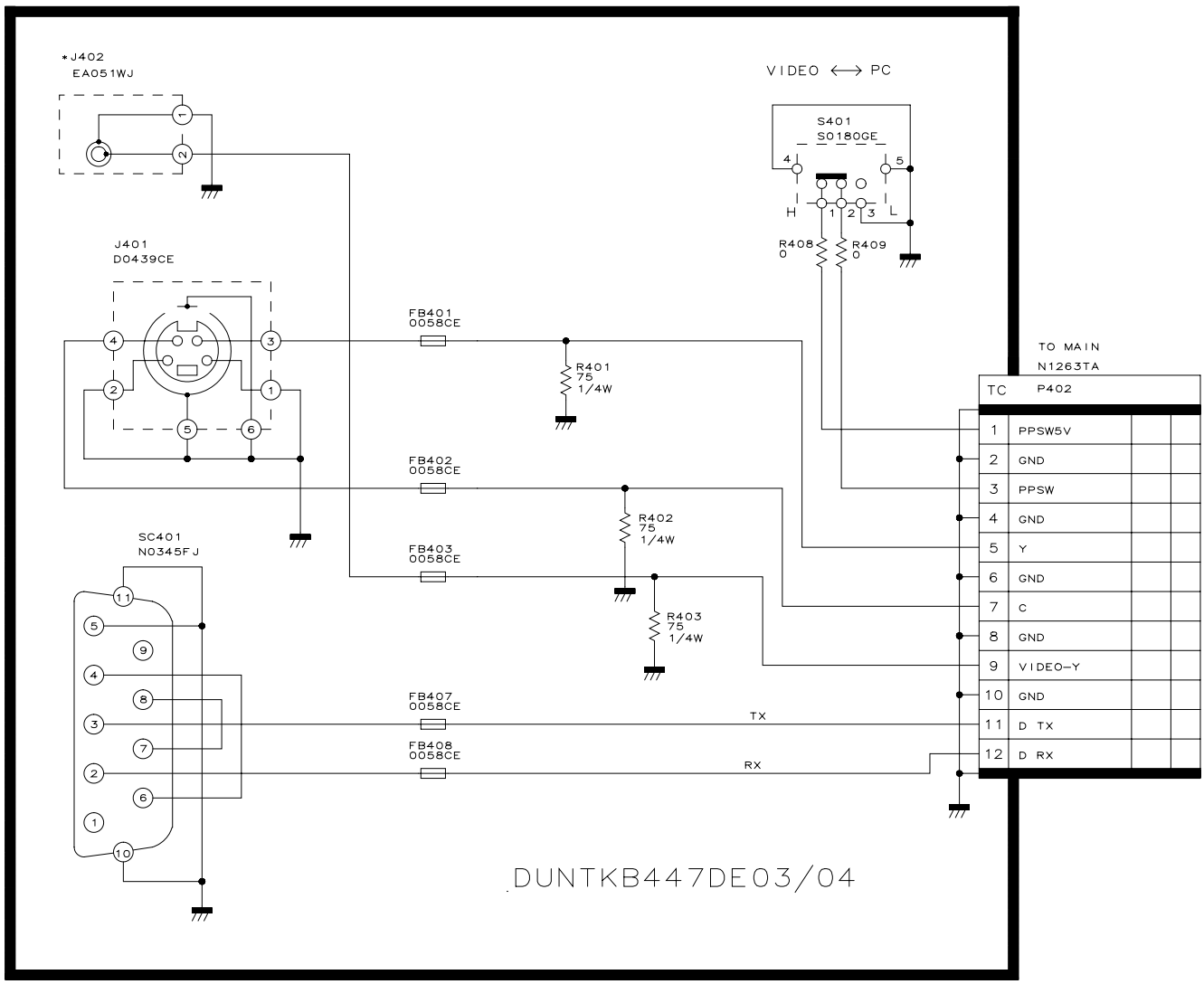
■ TERMINAL-1 UNIT/TERMINAL-1 EINHEIT



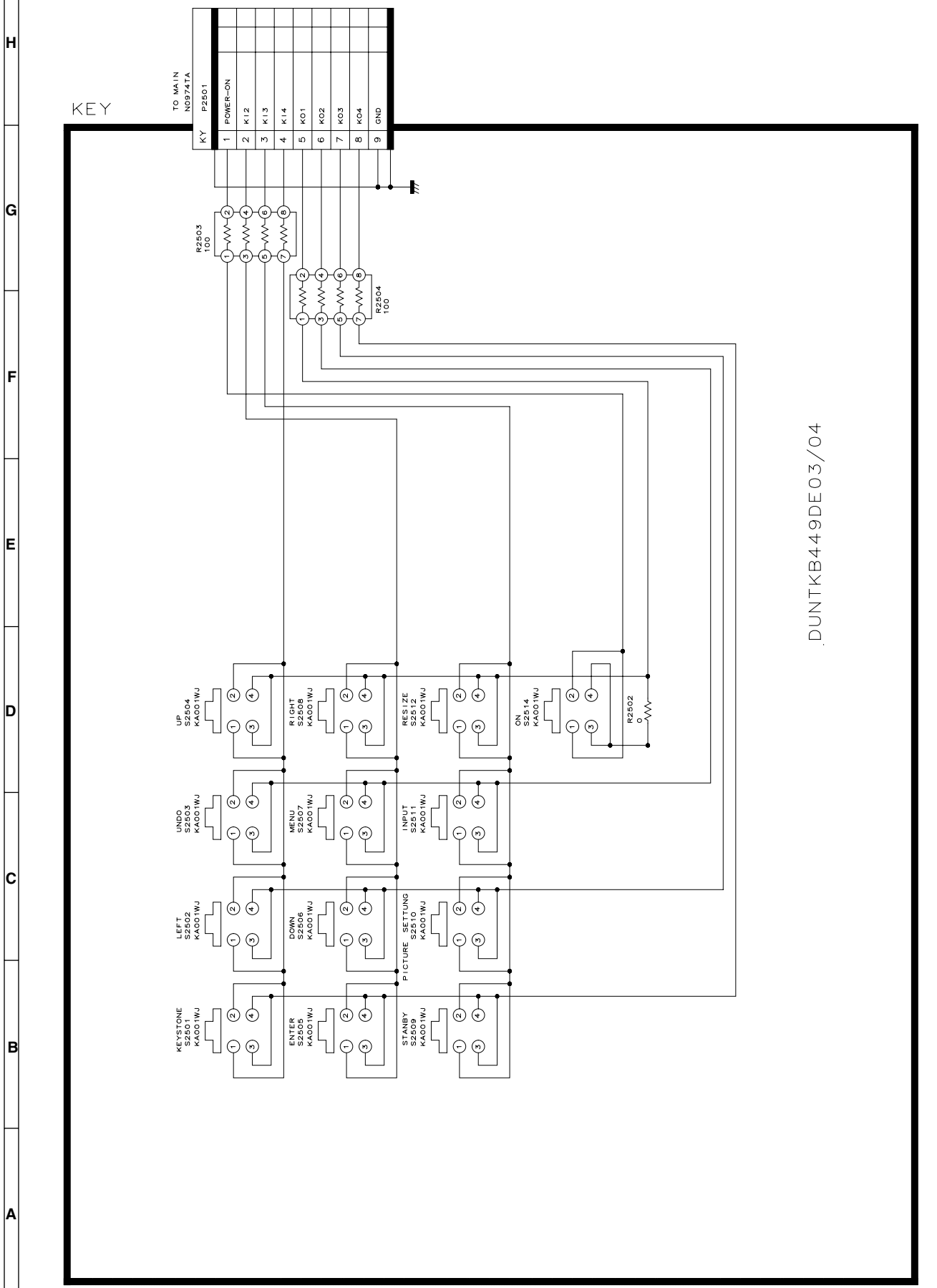


10	11	12	13	14	15	16	17	18	19

■ TERMINAL-2 UNIT/TERMINAL-2 EINHEIT

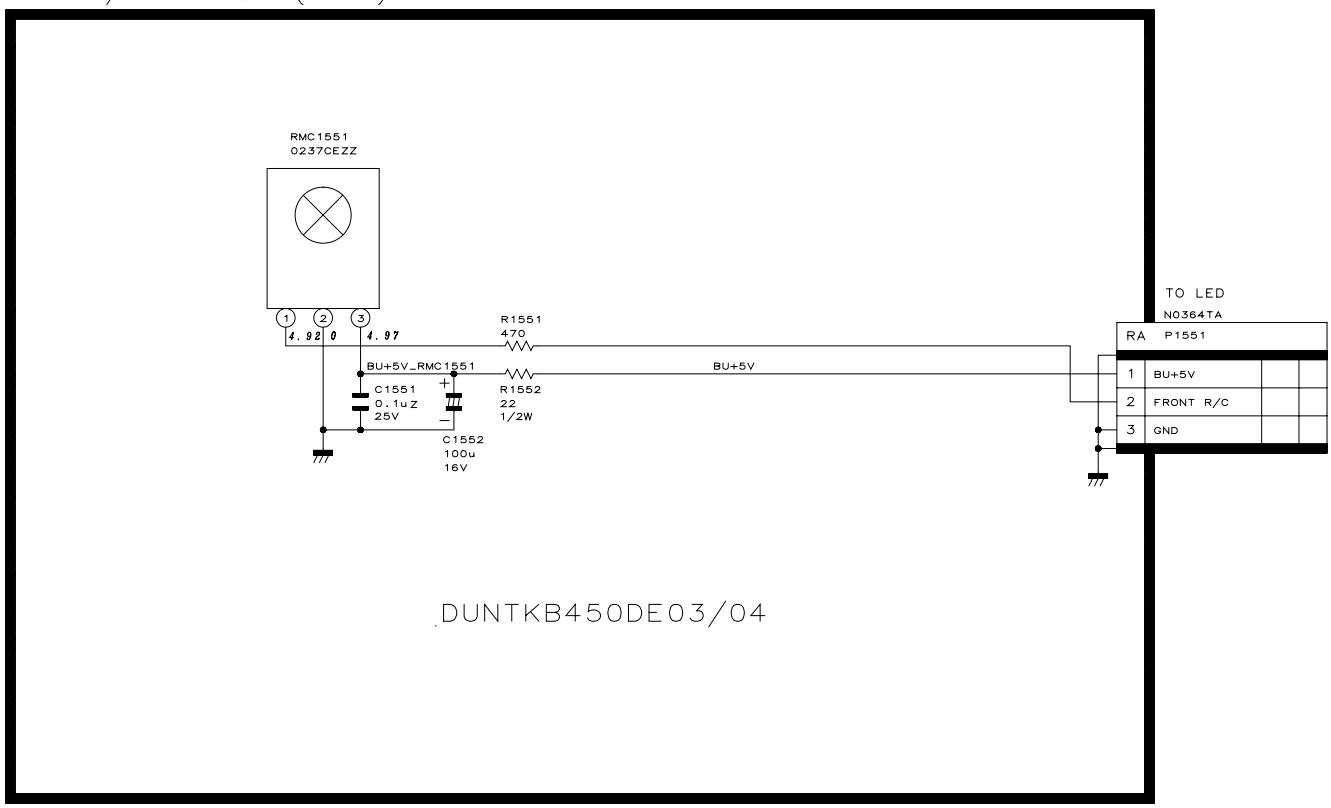


■ KEY UNIT/SCHLÜSSELEINHEIT



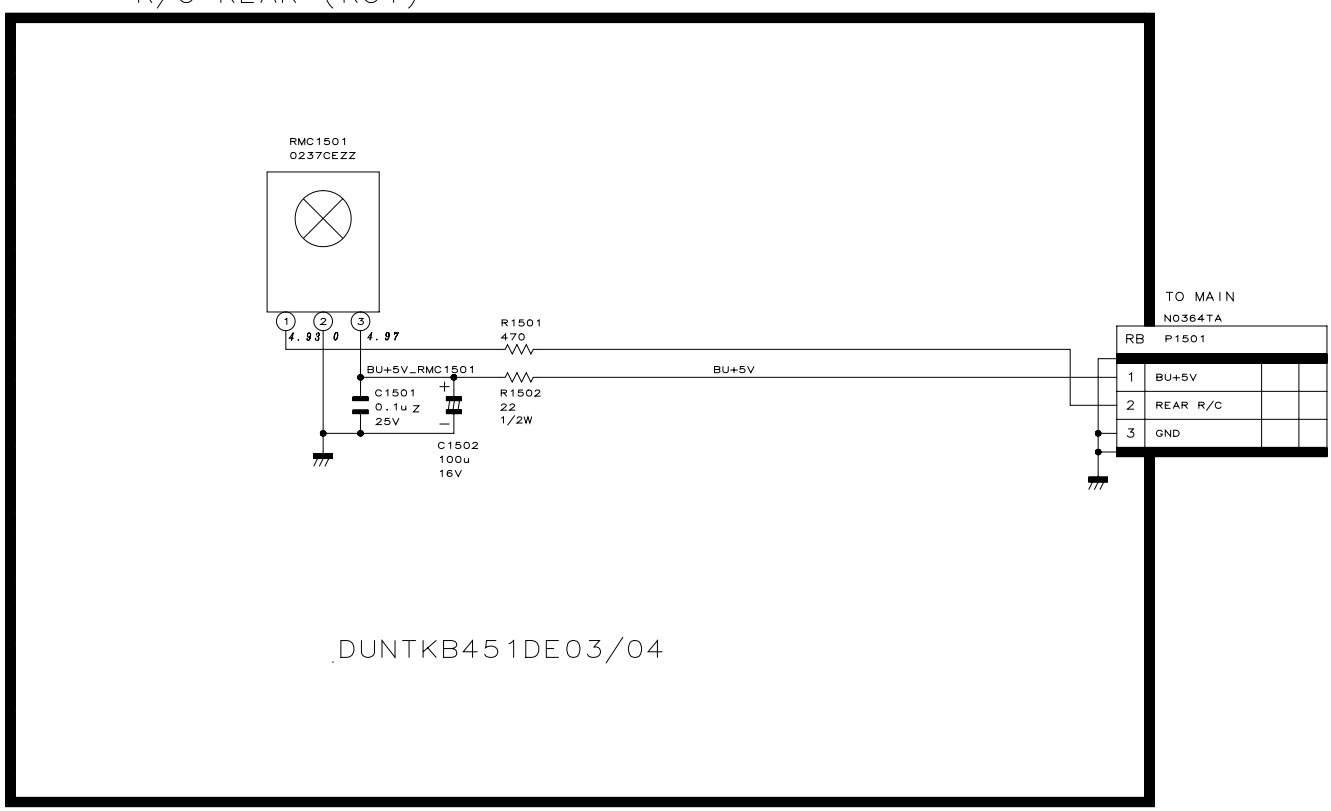
■ FRONT R/C UNIT/VORDERE R/C-EINHEIT

R/C-FRONT (RC2)



■ REAR R/C UNIT/HINTERE R/C-EINHEIT

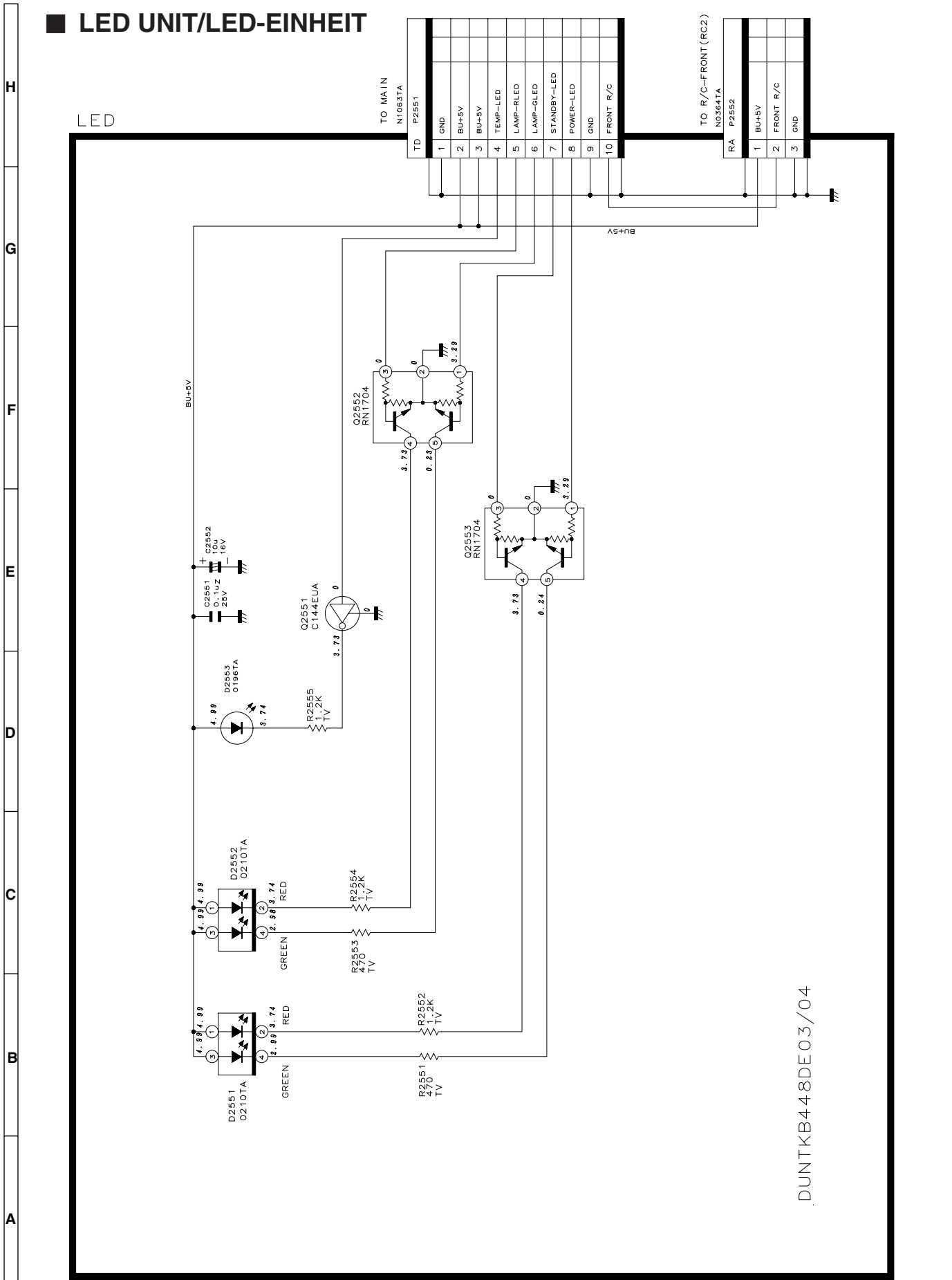
R/C-REAR (RC1)



H G F E D C B A

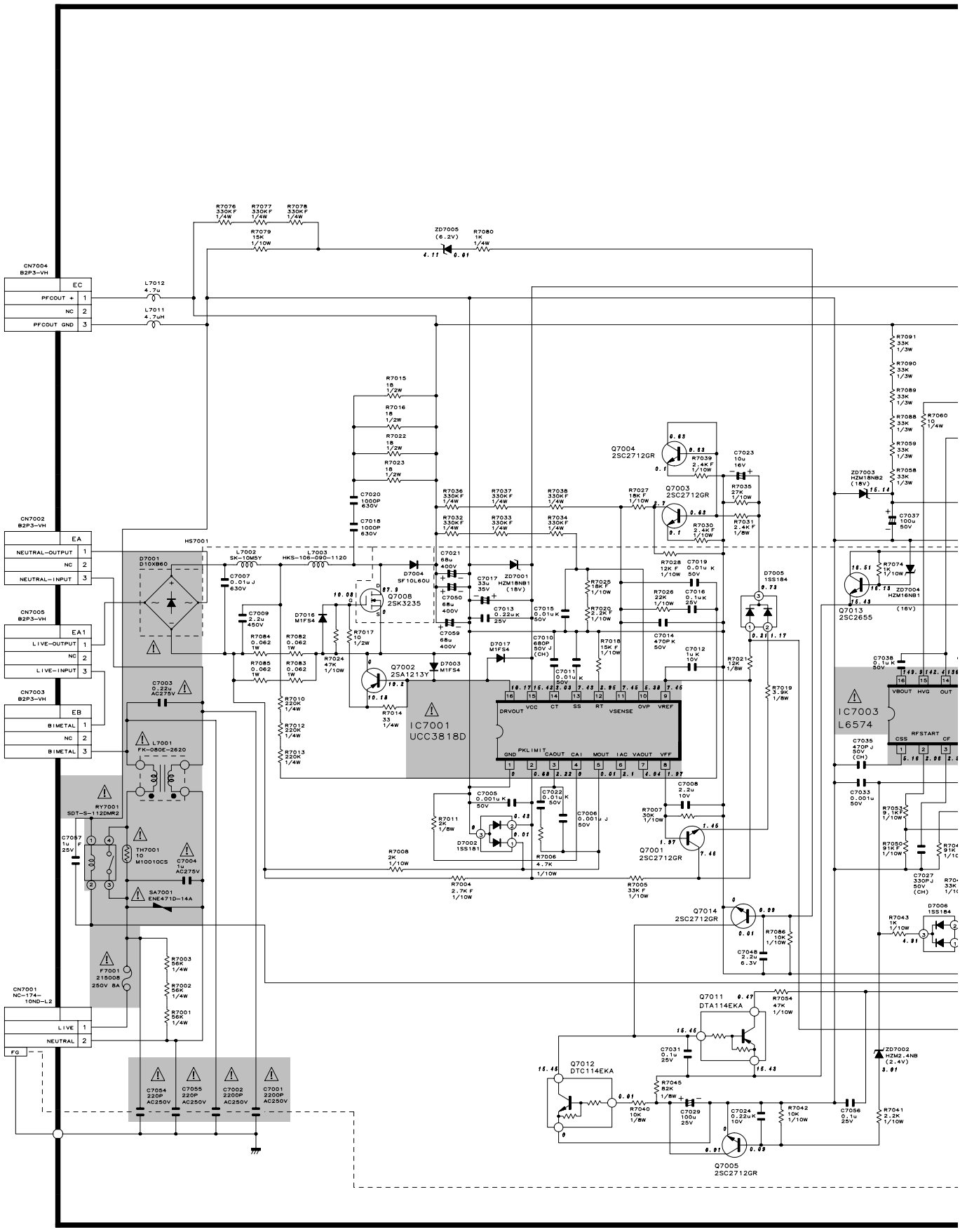
1 2 3 4 5 6

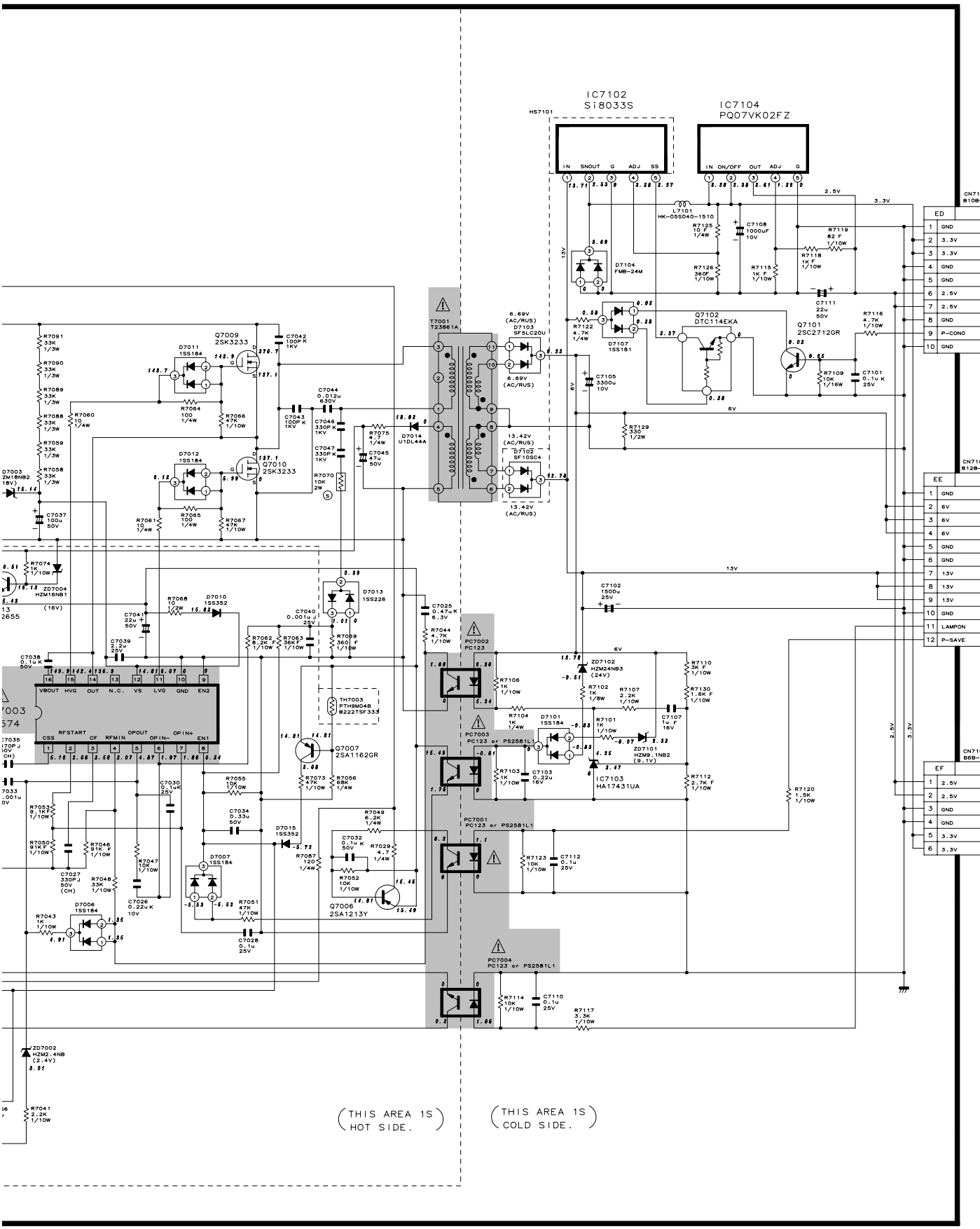
■ LED UNIT/LED-EINHEIT



■ POWER UNIT/NETZTEIKEINHEIT

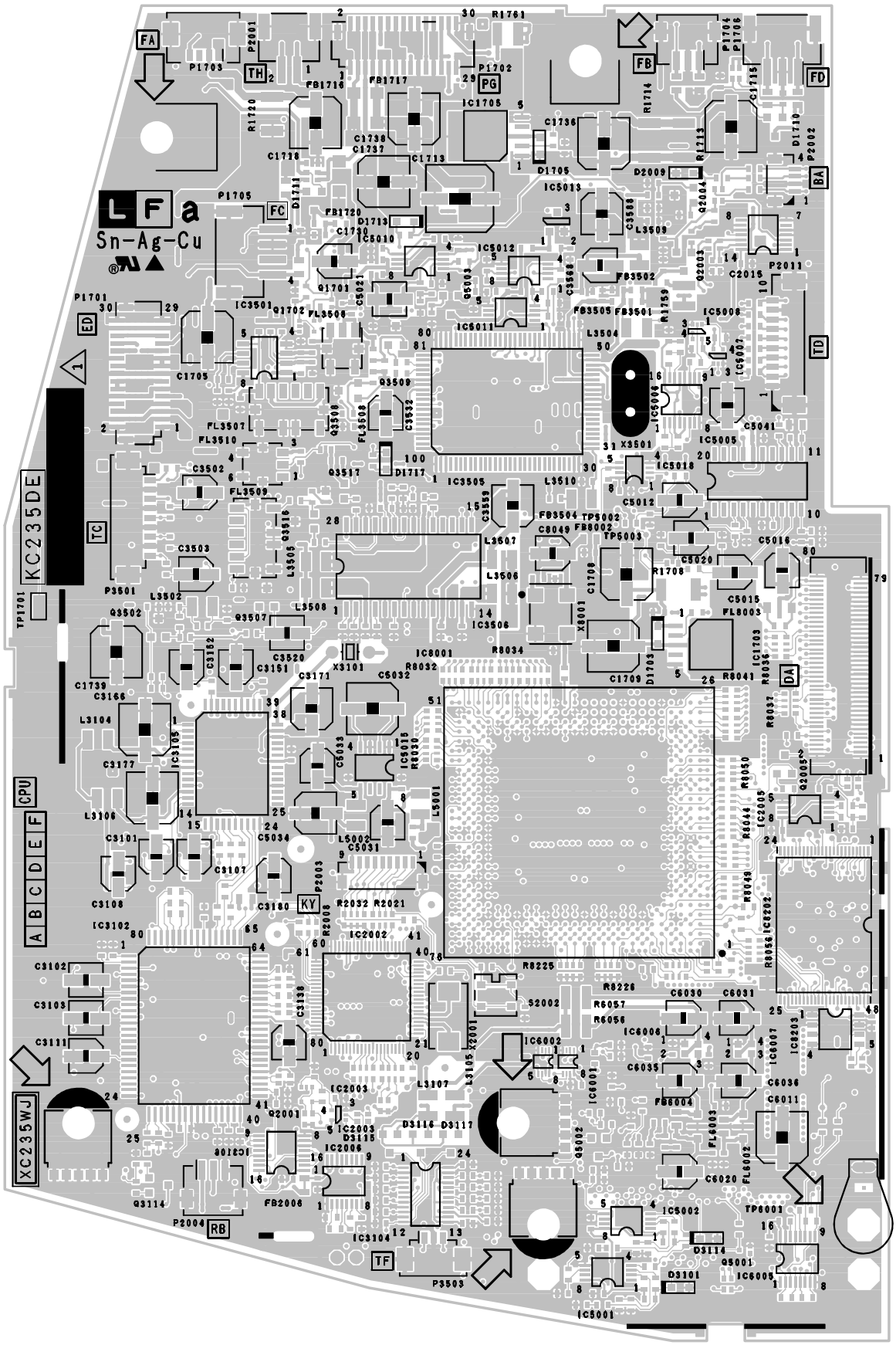
DEN





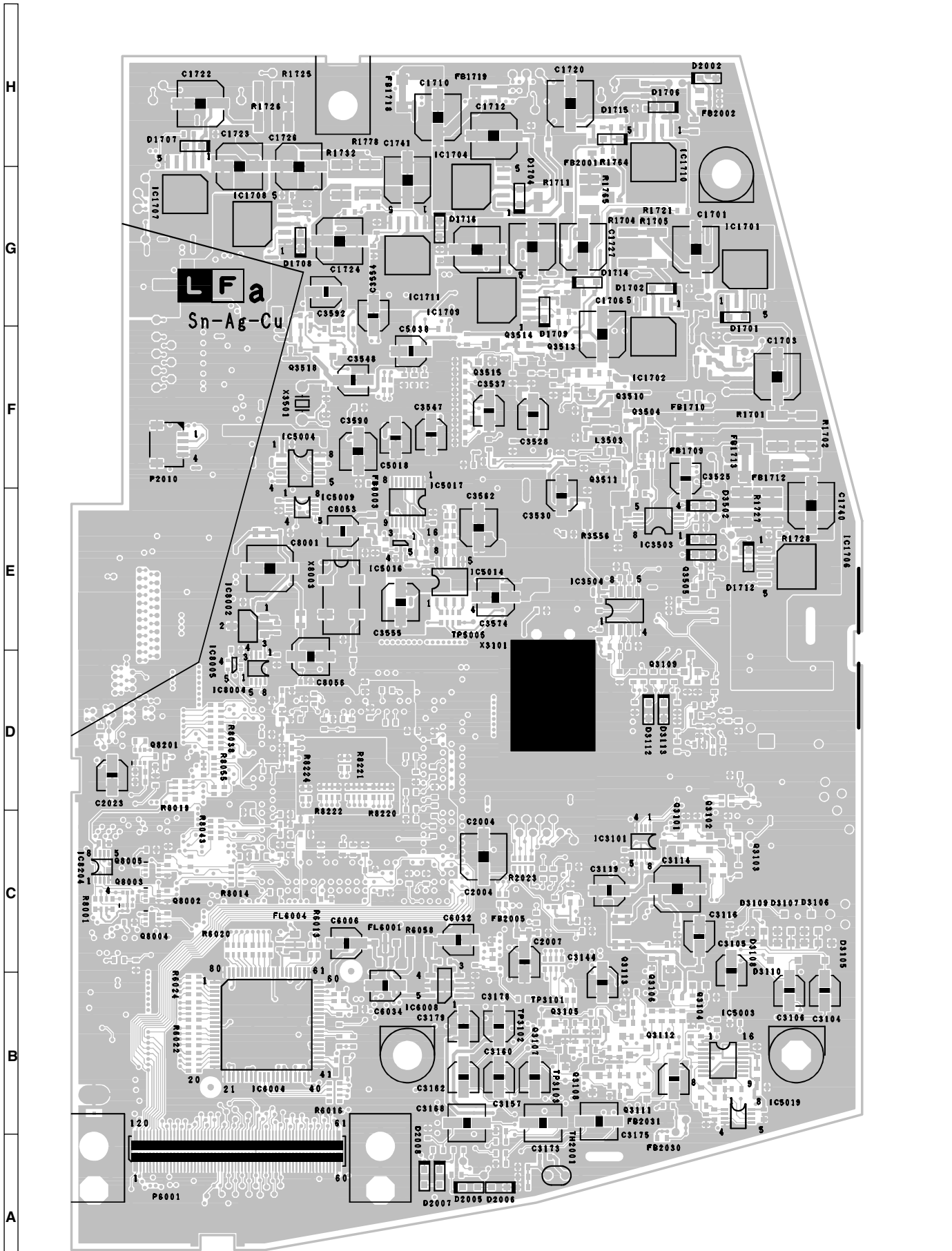
10	11	12	13	14	15	16	17	18	19

PRINTED WIRING BOARD ASSEMBLIES/LEITERPLATTENEIN

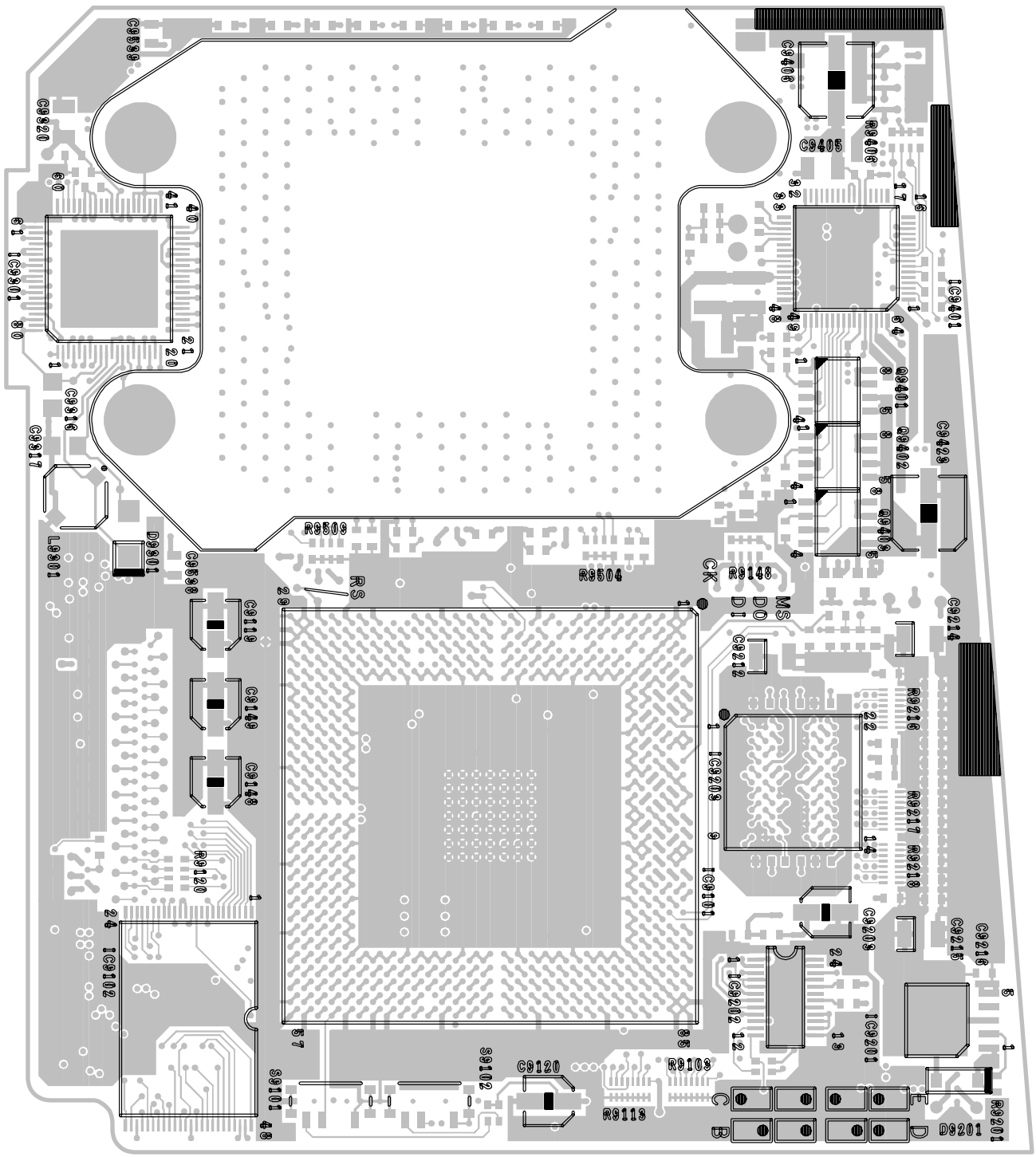


MAIN Unit (Side-A)/HAUPT-Einheit (Seite-A)

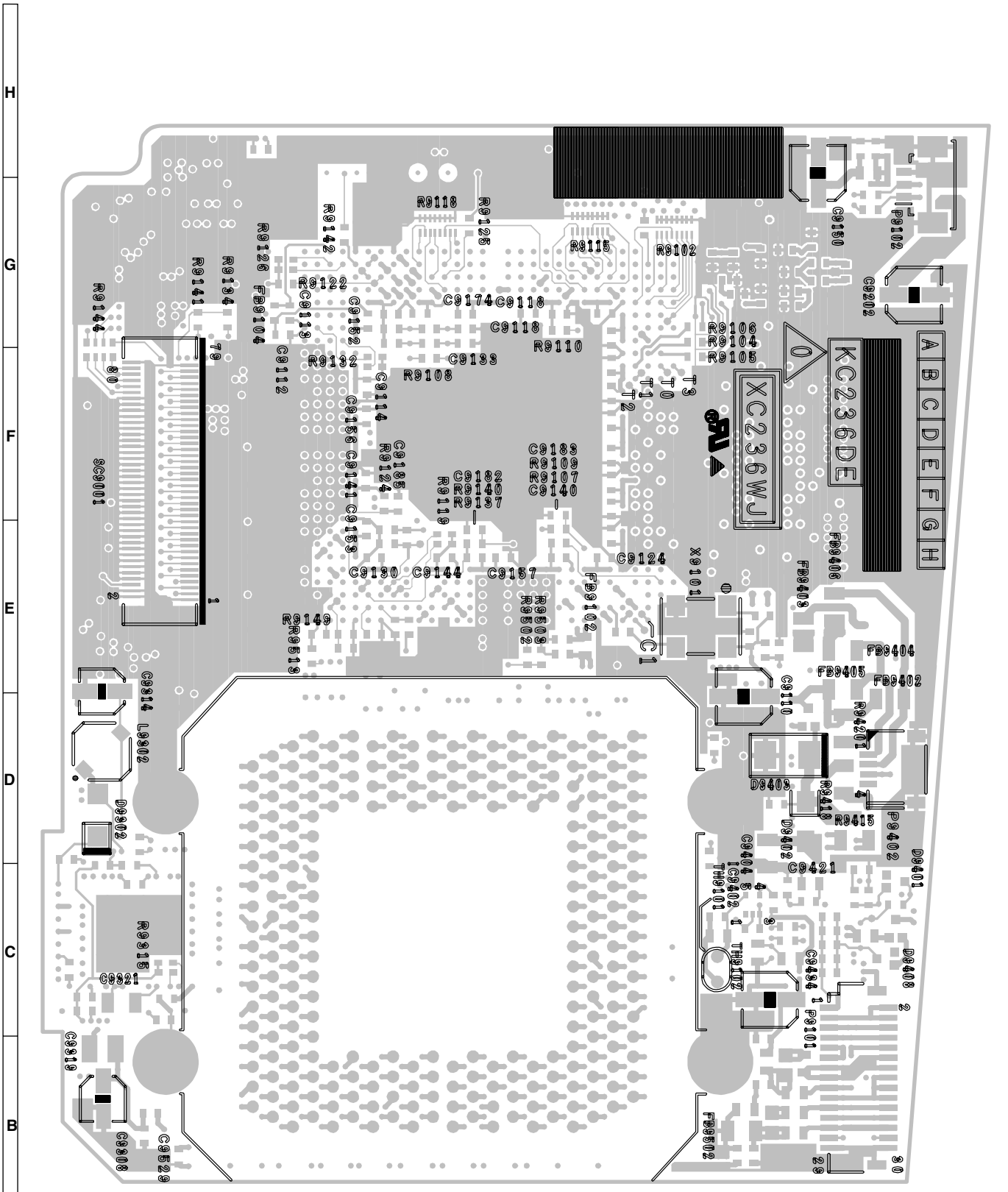
1	2	3	4	5	6



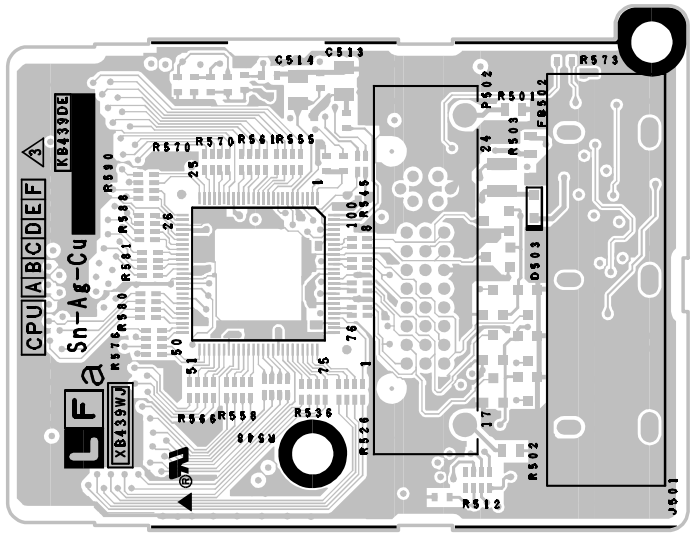
MAIN Unit (Side-B)/HAUPT-Einheit (Seite-B)



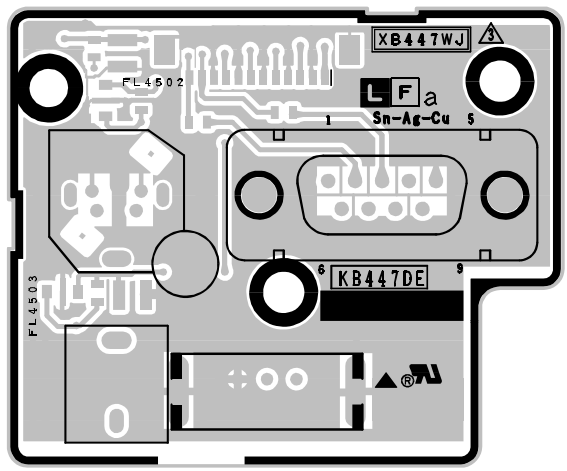
FORMATTER Unit (Side-A)/FORMATIER-Einheit (Seite-A)



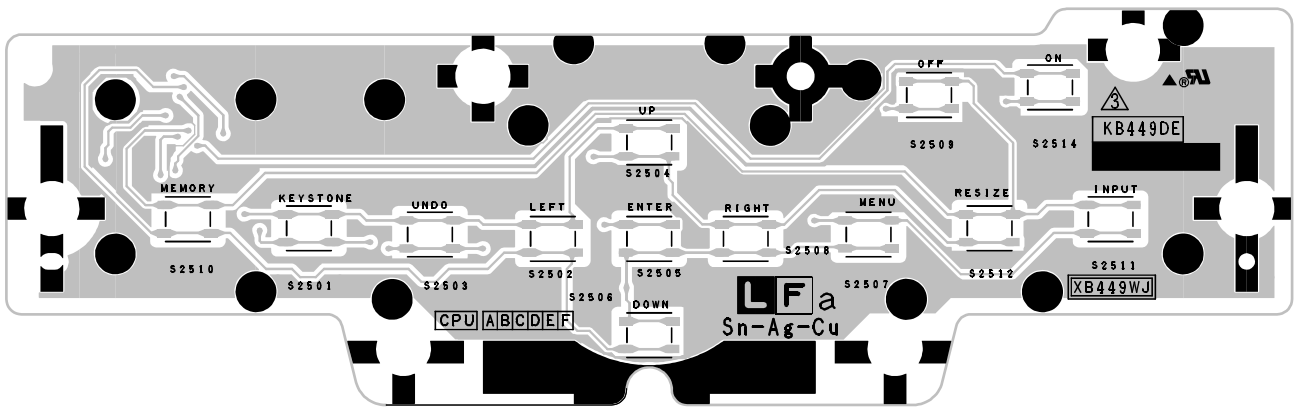
FORMATTER Unit (Side-B)/FORMATIER-Einheit (Seite-B)



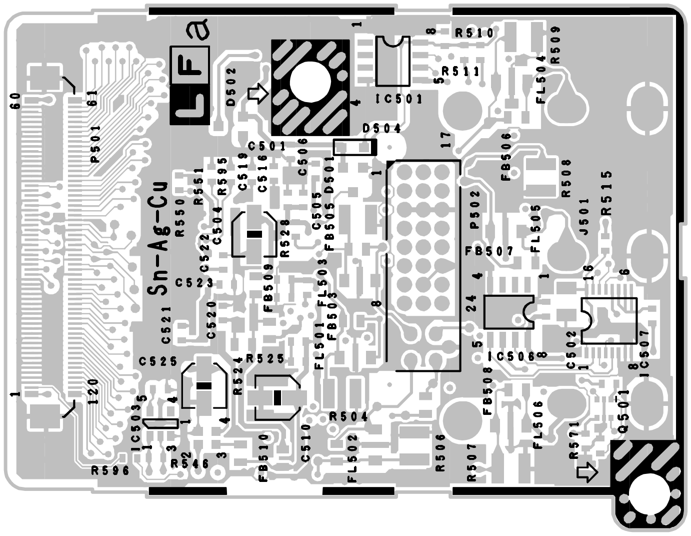
TERMINAL-1 Unit (Side-A)/TERMINAL-1 Einheit (Seite-A)



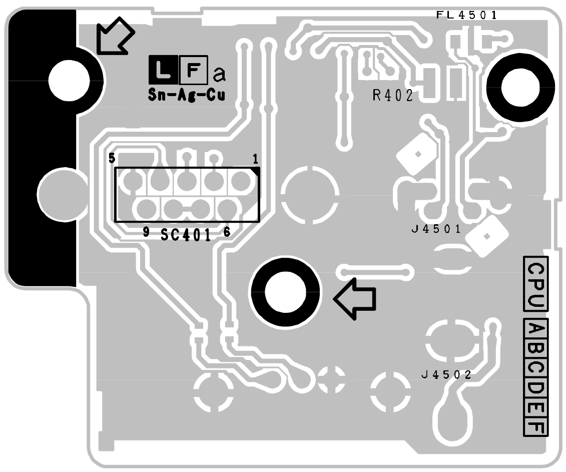
TERMINAL-2 Unit (Side-A)/TERMINAL-2 Einheit (Seite-A)



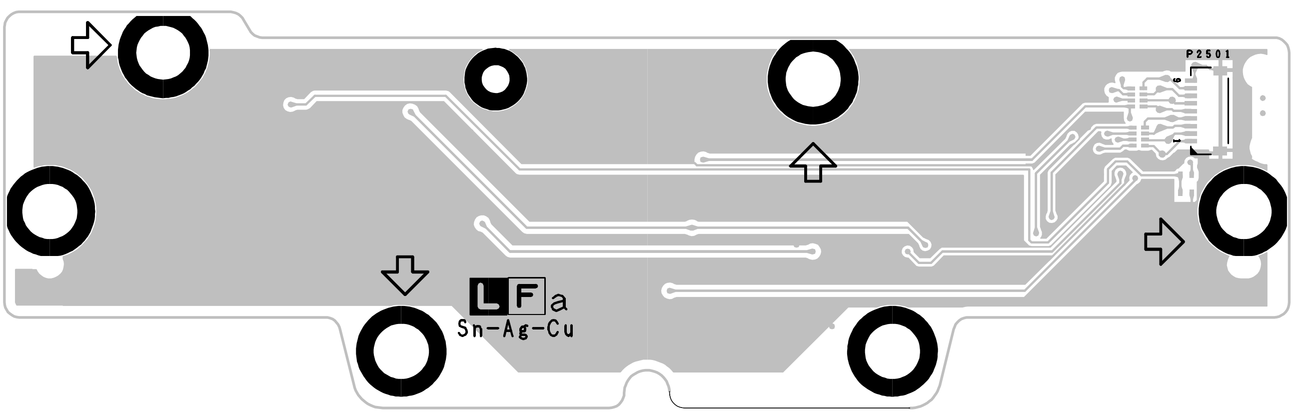
KEY Unit (Side-A)/SCHLÜSSEL Einheit (Seite-A)



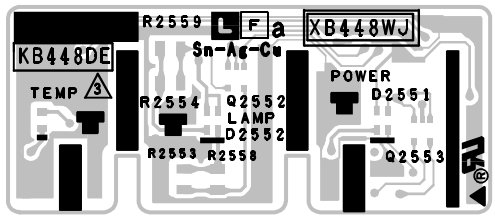
TERMINAL-1 Unit (Side-B)/TERMINAL-1 Einheit (Seite-B)



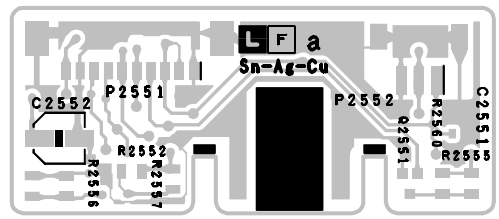
TERMINAL-2 Unit (Side-B)/TERMINAL-2 Einheit (Seite-B)



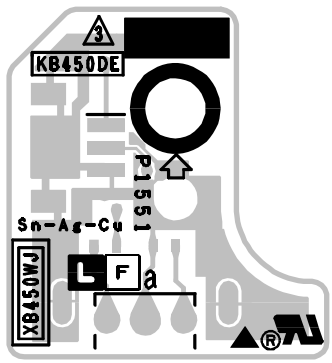
KEY Unit (Side-B)/SCHLÜSSEL Einheit (Seite-B)



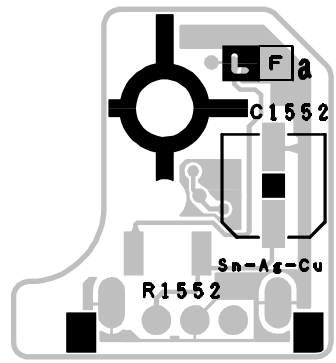
LED Unit (Side-A)/LED-Einheit (Seite-A)



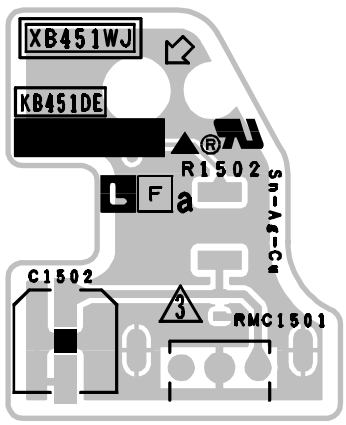
LED Unit (Side-B)//LED-Einheit (Seite-B)



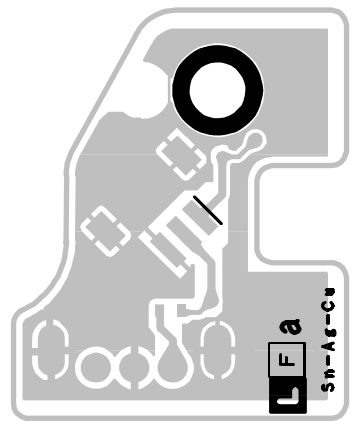
**FRONT R/C Unit (Side-A)/
VORDERE R/C-Einheit (Seite-A)**



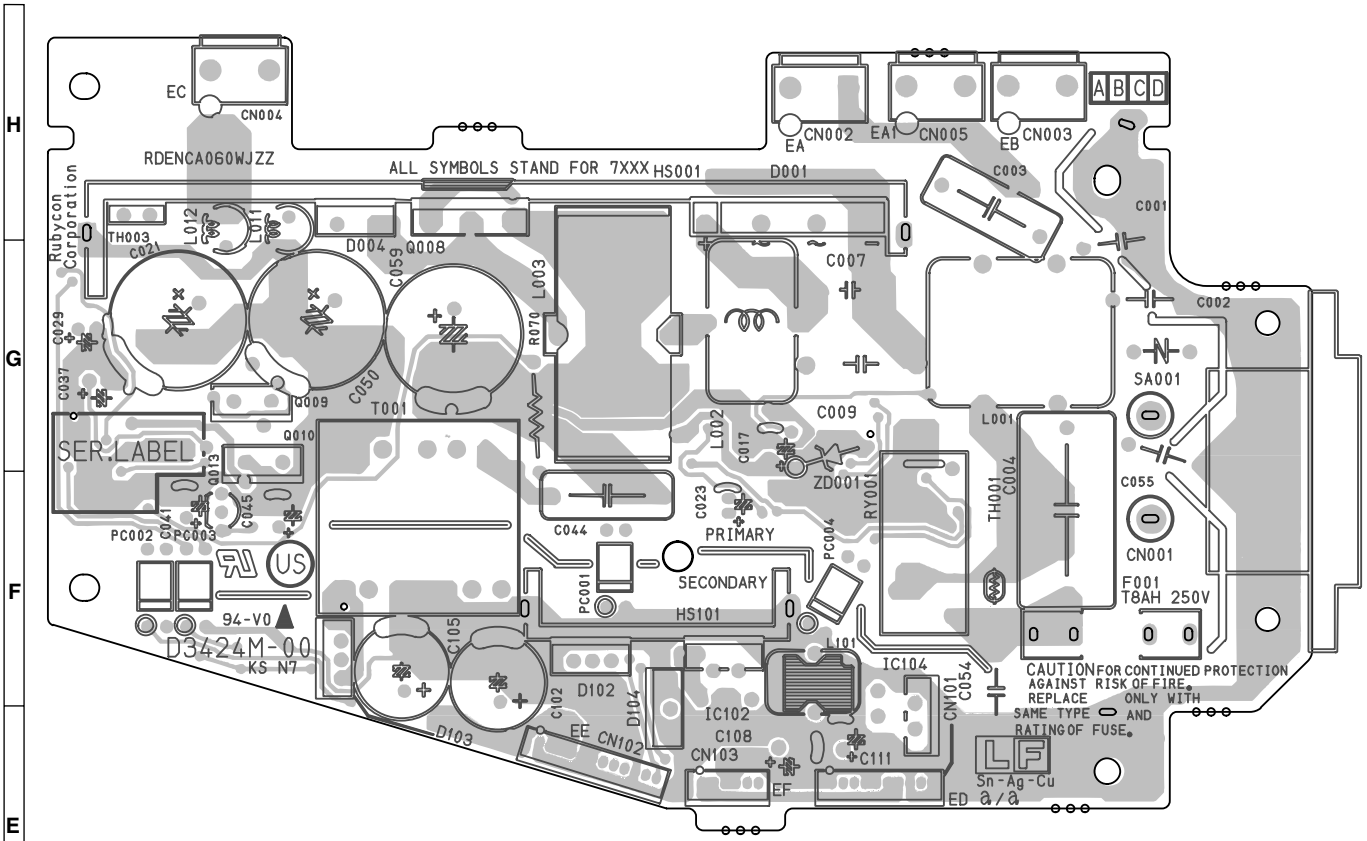
**FRONT R/C Unit (Side-B)/
VORDERE R/C-Einheit (Seite-B)**



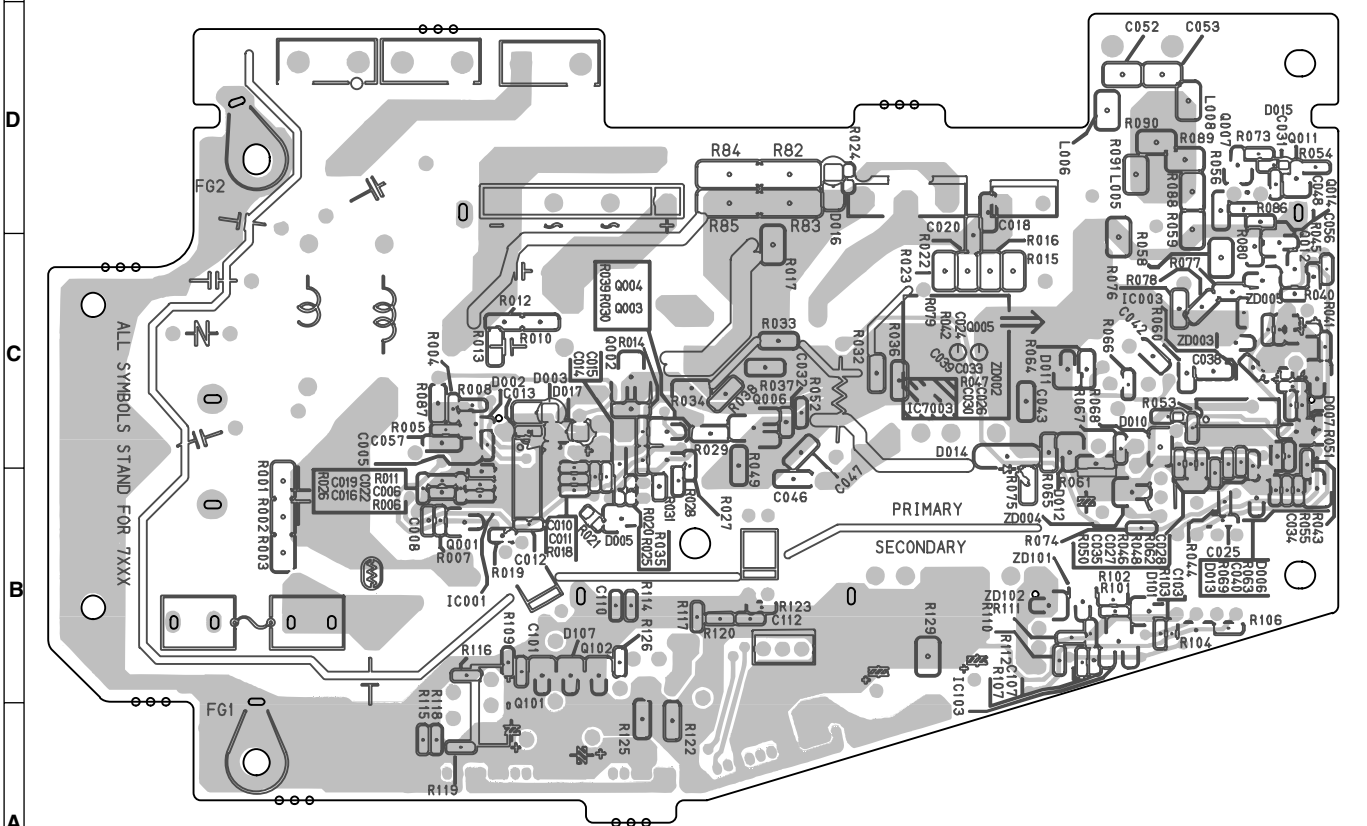
**REAR R/C Unit (Side-A)/
HINTERE R/C-Einheit (Seite-A)**



**REAR R/C Unit (Side-B)/
HINTERE R/C-Einheit (Seite-B)**



POWER Unit (Side-A)/NETZTEIL-Einheit (Seite-A)



POWER Unit (Side-B)/NETZTEIL-Einheit (Seite-B)

1	2	3	4	5	6

PARTS LIST

PARTS REPLACEMENT

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

HOW TO ORDER REPLACEMENT PARTS

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION
5. CODE
6. QUANTITY

in **USA**: Contact your nearest SHARP Parts Distributor.
For location of SHARP Parts Distributor,
Please call Toll-Free; 1-800-BE-SHARP

in **CANADA**: Contact SHARP Electronics of Canada Limited
Phone (416) 890-2100.

★ MARK: SPARE PARTS-DELIVERY SECTION

ERSATZTEILLISTE

AUSTAUSCH VON TEILEN

Ersatzteile, die besondere Sicherheitseigenschften haben, sind in dieser Anleitung markiert. Elektrische Komponenten mit solchen Eigenshaften sind in den Ersatzteil durch "⚠" gekenn-zeichnet.
Der Gebrauch von Ersatzteilen, die nicht deselben Sicherheits-eigenschaften haben wie die vom Hersteller empfohlenen ud in der Bedienungsanleitung angegebenen, können zur Ursache von Blitzeinschlägen, Bränden und anderen Gefahren werden.

WIE MAN ERSATSTEILE BESTELLT

Damit Ihre Bestellung promt und korrekt ausgeführt wird, geben Sie bitte folgende Informationen.

1. MODELL NR.
2. REF. NR.
3. ERSATZTEIL NR.
4. BESCHREIBUNG
5. KODE
6. QUANTITÄT

★ MARKIERUNG : ERSATZTEILE-LIEFERUNG

PRINTED WIRING BOARD ASSEMBLIES

XV-Z200U, DT-300

Ref. No.	Part No.	★	Description	Code
	DUNTKB439DE03	–	TERMINAL-1 Unit	—
	DUNTKB447DE03	–	TERMINAL-2 Unit	—
	DUNTKB448DE03	–	LED Unit	—
	DUNTKB449DE03	–	KEY Unit	—
	DUNTKB450DE03	–	FRONT R/C Unit	—
	DUNTKB451DE03	–	REAR R/C Unit	—
	DUNTKC235DE01	J	MAIN Unit	
	DUNTKC236DE01	J	FORMATTER Unit	CL
	RDENCA060WJZZ	J	POWER Unit	BT
	RDENCA061WJZZ	J	BALLAST Unit (Unit replacement.)	BS

XV-Z200E, XV-Z201E

Ref. No.	Part No.	★	Description	Code
	DUNTKB439DE04	–	TERMINAL-1 Unit	—
	DUNTKB447DE04	–	TERMINAL-2 Unit	—
	DUNTKB448DE04	–	LED Unit	—
	DUNTKB449DE04	–	KEY Unit	—
	DUNTKB450DE04	–	FRONT R/C Unit	—
	DUNTKB451DE04	–	REAR R/C Unit	—
	DUNTKC235DE02	J	MAIN Unit	
	DUNTKC236DE02	J	FORMATTER Unit	CL
	RDENCA060WJZZ	J	POWER Unit	BT
	RDENCA061WJZZ	J	BALLAST Unit (Unit replacement.)	BS

DUNTKB439DE03(XV-Z200U, DT-300) DUNTKB439DE04(XV-Z200E, XV-Z201E) TERMINAL-1 UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC501	RH-iXA938WJZZS	J	24LC02B-I/SN	
IC502	VHiSii169G+-1Q	J	SII169CTG100	BC
IC503	VHiPST3620N-1Y	J	PST3620NR	AD
IC505	VHiMM3033D+-1Y	J	MM3033DURE	AD
IC506	RH-iXA939WJZZS	J	24LC21T-I/SN	
IC507	VHiBU4053V/-1Y	J	BU4053BCFV-E2	AE

TRANSISTOR

Ref. No.	Part No.	★	Description	Code
Q501	VSHN1K03FU+-1Y	J	HN1K03FU	AD

DIODES

Ref. No.	Part No.	★	Description	Code
D503	VHDHSU119//-1Y	J	Diode	AB
D504	VHDHSU119//-1Y	J	Diode	AB
D505	VHDMA157A//-1Y	J	Diode	AC
D506	VHDMA157A//-1Y	J	Diode	AC
D507	VHDMA157A//-1Y	J	Diode	AC
D508	VHDMA157A//-1Y	J	Diode	AC
D509	VHDMA157A//-1Y	J	Diode	AC
D510	VHDMA157A//-1Y	J	Diode	AC
D511	VHDMA157A//-1Y	J	Diode	AC
D512	VHDMA157A//-1Y	J	Diode	AC

CAPACITORS

Ref. No.	Part No.	★				Code
C501	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C502	RC-KZ0044TAZZY	J	4.7	10V	Ceramic	AD
C503	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C504	VCEAPF1EW475MY	J	4.7	25V	Electrolytic	AB
C505	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C506	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C507	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C508	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C509	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C510	VCEAPF0JW226MY	J	22	6.3V	Electrolytic	AB
C511	VCKYCY0JB105KY	J	1	6.3V	Ceramic	AC
C512	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C513	RC-KZ0097TAZZY	J	10	10V	Ceramic	AD
C514	RC-KZ0097TAZZY	J	10	10V	Ceramic	AD
C516	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C517	VCCCCY1HH181JY	J	180p	50V	Ceramic	AA
C518	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C519	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA

Ref. No.	Part No.	★	Description			Code

DUNTKB439DE03(XV-Z200U, DT-300)
DUNTKB439DE04(XV-Z200E, XV-Z201E)
TERMINAL-1 UNIT (Continued)

C520	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C521	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C522	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C523	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C524	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C525	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB

RESISTORS

R501	VRS-TV1JD000JY	J	0	1/10W	Metal Oxide	AA
R502	VRS-TV1JD000JY	J	0	1/10W	Metal Oxide	AA
R503	VRS-TW2ED101JY	J	100	1/4W	Metal Oxide	AA
R504	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R505	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R506	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R507	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R508	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R509	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R510	VRS-CY1JF473JY	J	47k	1/16W	Metal Oxide	AA
R511	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R512	VRS-CB1JF101JY	J	100	1/16W	Metal Oxide	AA
R513	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R514	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R515	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R524	VRS-TV1JD000JY	J	0	1/10W	Metal Oxide	AA
R525	VRS-TV1JD000JY	J	0	1/10W	Metal Oxide	AA
R526	VRS-CB1JF151JY	J	150	1/16W	Metal Oxide	AC
R528	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R530	VRS-CY1JF391JY	J	390	1/16W	Metal Oxide	AA
R531	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R532	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R536	VRS-CB1JF151JY	J	150	1/16W	Metal Oxide	AC
R541	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R546	VRS-CY1JF332JY	J	3.3k	1/16W	Metal Oxide	AA
R548	VRS-CB1JF151JY	J	150	1/16W	Metal Oxide	AC
R551	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R555	VRS-CB1JF151JY	J	150	1/16W	Metal Oxide	AC
R558	VRS-CB1JF151JY	J	150	1/16W	Metal Oxide	AC
R561	VRS-CB1JF151JY	J	150	1/16W	Metal Oxide	AC
R562	VRS-CA1JF100JY	J	10	1/16W	Metal Oxide	AA
R563	VRS-CA1JF100JY	J	10	1/16W	Metal Oxide	AA
R564	VRS-CA1JF100JY	J	10	1/16W	Metal Oxide	AA
R565	VRS-CA1JF100JY	J	10	1/16W	Metal Oxide	AA
R566	VRS-CB1JF151JY	J	150	1/16W	Metal Oxide	AC
R570	VRS-CB1JF151JY	J	150	1/16W	Metal Oxide	AC
R571	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R572	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R573	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R574	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R576	VRS-CB1JF151JY	J	150	1/16W	Metal Oxide	AC
R580	VRS-CB1JF560JY	J	56	1/16W	Metal Oxide	AA
R581	VRS-CB1JF151JY	J	150	1/16W	Metal Oxide	AC
R588	VRS-CB1JF151JY	J	150	1/16W	Metal Oxide	AC
R590	VRS-CB1JF151JY	J	150	1/16W	Metal Oxide	AC
R595	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R596	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

FB501	RBLN-0058CEZZY	J	Ferrite Bead	AB
FB502	RBLN-0058CEZZY	J	Ferrite Bead	AB
FB503	RBLN-0058CEZZY	J	Ferrite Bead	AB
FB504	RBLN-0058CEZZY	J	Ferrite Bead	AB
FB505	RBLN-0058CEZZY	J	Ferrite Bead	AB
FB506	RBLN-0058CEZZY	J	Ferrite Bead	AB
FB507	RBLN-0058CEZZY	J	Ferrite Bead	AB
FB508	RBLN-0058CEZZY	J	Ferrite Bead	AB
FB509	RBLN-0210TAZZY	J	Ferrite Bead	AB
FB511	RBLN-0210TAZZY	J	Ferrite Bead	AB
J501	QJAKGA046WJZZ	J	INPUT1 Terminal	AE
P501	QCNCM0039CEZZY	J	Plug, 121-pin	AM
P502	QSOCNA071WJZZ	J	INPUT2/DIGITAL INPUT Terminal	AH

Ref. No.	Part No.	★	Description	Code
	PSLDCA006WJZZ	J	Shield-A	AF
	PSLDCA007WJZZ	J	Shield-B	AF
	PSLDMA030WJFW	J	Terminal Shield(L)	AF
	PSLDMA031WJFW	J	Terminal Shield-B	AG
	QEARBA004WJFW	J	Grounding Parts	AH
	HPNLHA005WJK2	J	Terminal Panel(L)	AP
	NSFTZ0135CEFW	J	Shaft Screw, x2	AD
	XEBSD30P10000	J	Screw, x2	AA

Ref. No.	Part No.	★	Description	Code

DUNTKB447DE03(XV-Z200U, DT-300)
DUNTKB447DE04(XV-Z200E, XV-Z201E)
TERMINAL-2 UNIT

RESISTORS

R401	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R402	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R403	VRS-TW2ED750JY	J	75	1/4W	Metal Oxide	AA
R408	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R409	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA

SWITCH

S401	QSW-S0180GEZZ	J	Switch	AC

MISCELLANEOUS PARTS

FB401	RBLN-0058CEZZY	J	Ferrite Bead	AB
FB402	RBLN-0058CEZZY	J	Ferrite Bead	AB
FB403	RBLN-0058CEZZY	J	Ferrite Bead	AB
FB407	RBLN-0058CEZZY	J	Ferrite Bead	AB
FB408	RBLN-0058CEZZY	J	Ferrite Bead	AB
J401	QSOCD0439CEZZ	J	INPUT3 Terminal	AF
J402	QJAKEA051WJZZ	J	INPUT4 Terminal	AD
P402	QPLGN1263TAZZY	J	Plug, 12-pin(TC)	AD
SC401	QSOCN0345FJZZ	J	RS-232C Terminal	AM
	PSLDMA049WJFW	J	Terminal Shield(R)	AF
	QCNW-A670WJZZ	J	Connecting Cord	AM
	HPNLHA002WJK5	J	Terminal Panel(R)	AP
	NSFTZ0135CEFW	J	Shaft Screw, x2	AD
	PCOVUA006WJZZ	J	Cover, for Switch	AC
	XEBSD30P10000	J	Screw, x3	AA
	XEBSN30P10000	J	Screw, x1	AA

Ref. No.	Part No.	★	Description	Code

DUNTKB448DE03(XV-Z200U, DT-300)
DUNTKB448DE04(XV-Z200E, XV-Z201E)
LED UNIT

TRANSISTORS

Q2551	VSDTC144EUA-1Y	J	DTC144EUA	AB
Q2552	VSRN1704///-1Y	J	RN1704	AC
Q2553	VSRN1704///-1Y	J	RN1704	AC

DIODES

D2551	RH-PX0210TAZZY	J	POWER Indicator	AC
D2552	RH-PX0210TAZZY	J	LAMP Indicator	AC
D2553	RH-PX0196TAZZY	J	TEMPERATURE WARNING Indicator	AC

CAPACITORS

C2551	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2552	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB

RESISTORS

R2551	VRS-TV1JD471JY	J	470	1/10W	Metal Oxide	AA
R2552	VRS-TV1JD122JY	J	1.2k	1/10W	Metal Oxide	AA
R2553	VRS-TV1JD471JY	J	470	1/10W	Metal Oxide	AA
R2554	VRS-TV1JD122JY	J	1.2k	1/10W	Metal Oxide	AA
R2555	VRS-TV1JD122JY	J	1.2k	1/10W	Metal Oxide	AA

MISCELLANEOUS PARTS

P2551	QPLGN1063TAZZY	J	Plug, 10-pin(TD)	AD
P2552	QPLGN0364TAZZY	J	Plug, 3-pin(RA)	AC
	QCNW-A671WJZZ	J	Connecting Cord(TD)	AG

Ref. No.	Part No.	★	Description	Code

DUNTKB449DE03(XV-Z200U, DT-300)
DUNTKB449DE04(XV-Z200E, XV-Z201E)
KEY UNIT

RESISTORS

R2502	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R2503	VRS-CB1JF101JY	J	100	1/16W	Metal Oxide	AA
R2504	VRS-CB1JF101JY	J	100	1/16W	Metal Oxide	AA

SWITCHES

S2501	QSW-KA001WJZZY	J	KEYSTONE	AD
S2502	QSW-KA001WJZZY	J	ADJUSTMENT(◀)	AD
S2503	QSW-KA001WJZZY	J	UNDO	AD
S2504	QSW-KA001WJZZY	J	ADJUSTMENT(▲)	AD
S2505	QSW-KA001WJZZY	J	ENTER	AD
S2506	QSW-KA001WJZZY	J	ADJUSTMENT(▼)	AD
S2507	QSW-KA001WJZZY	J	MENU	AD
S2508	QSW-KA001WJZZY	J	ADJUSTMENT(▶)	AD
S2509	QSW-KA001WJZZY	J	STANDBY	AD
S2510	QSW-KA001WJZZY	J	PICTURE SETTING	AD
S2511	QSW-KA001WJZZY	J	INPUT	AD
S2512	QSW-KA001WJZZY	J	RESIZE	AD
S2514	QSW-KA001WJZZY	J	ON	AD

MISCELLANEOUS PARTS

P2501	QPLGN0974TAZZY	J	Plug, 9-pin(KY)	AD
	QCNW-A667WJZZ	J	Connecting Cord(KY)	AH

DUNTKB450DE03(XV-Z200U, DT-300)
DUNTKB450DE04(XV-Z200E, XV-Z201E)
FRONT R/C UNIT

CAPACITORS

C1551	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1552	VCEAPF1CW107MY	J	100	16V	Electrolytic	AC

RESISTORS

R1551	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R1552	VRS-TX2HF220JY	J	22	1/2W	Metal Oxide	AB

MISCELLANEOUS PARTS

P1551	QPLGN0364TAZZY	J	Plug, 3-pin(RA)	AC
RMC1551	RRMCU0237CEZZ	J	R/C Receiver	AF
	PSLDC3076CEFN	J	R/C Shield	AE

DUNTKB451DE03(XV-Z200U, DT-300)
DUNTKB451DE04(XV-Z200E, XV-Z201E)
REAR R/C UNIT

CAPACITORS

C1501	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1502	VCEAPF1CW107MY	J	100	16V	Electrolytic	AC

RESISTORS

R1501	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R1502	VRS-TX2HF220JY	J	22	1/2W	Metal Oxide	AB

MISCELLANEOUS PARTS

P1501	QPLGN0364TAZZY	J	Plug, 3-pin(RB)	AC
RMC1501	RRMCU0237CEZZ	J	R/C Receiver	AF
	PSLDC3076CEFN	J	R/C Shield	AE
	QCNW-A676WJZZ	J	Connecting Cord(RB)	AE

Ref. No.	Part No.	★	Description	Code

DUNTKC235DE01(XV-Z200U, DT-300)
DUNTKC235DE02(XV-Z200E, XV-Z201E)
MAIN UNIT

INTEGRATED CIRCUITS

IC1701	VHiPQ050DZ1-1Y	J	PQ050DZ01Z	AE
IC1702	VHiPQ033DZ1-1Y	J	PQ033DZ01ZP	AE
IC1703	VHiPQ025EZ5-1Y	J	PQ025EZ5MZP	AF
IC1704	VHiPQ050DZ1-1Y	J	PQ050DZ01Z	AE
IC1705	VHiPQ12DZ1U-1Y	J	PQ12DZ1U	AG
IC1706	VHiPQ09DZ1U-1Y	J	PQ09DZ1U	AG
IC1707	VHiPQ050DZ1-1Y	J	PQ050DZ01Z	AE
IC1708	VHiPQ20WZ11-1Y	J	PQ20WZ1U	AF
IC1709	VHiPQ20WZ11-1Y	J	PQ20WZ1U	AF
IC1710	VHiPQ20WZ11-1Y	J	PQ20WZ1U	AF
IC1711	VHiPQ20WZ11-1Y	J	PQ20WZ1U	AF
IC2002	VHiTE7780++-1Q	J	TE7780	AW
IC2003	VHiTC7SH08U-1Y	J	TC7SH08FU	AF
IC2005	VHiTL712CPW-1Y	J	TL712CPWR	AK
IC2006	VHiSP3220E+-1Y	J	SP3220ECY/TR	AM
IC2007	VHiAHCT08PW-1Y	J	SN74AHCT08PW	AD
IC3101	VHiSN2G04CT-1Y	J	SN74AHC2G04HDC	AE
IC3102	VHiCXA2101Q-1Q	J	CXA2101AQ-TL	BE
IC3104	VHiAD8183++-1Y	J	AD8183ARU	AW
IC3105	VHiTB1274AF1EQ	J	TB1274AF	AX
IC3106	VHiLV4053AT-1Y	J	SN74LV4053APWR	AE
IC3504	VHiTK15420/-1Y	J	TK15420MTL	AG
IC3506	VHiTC90A69F-1Y	J	TC90A69F	AT
IC5001	VHiTL712CPW-1Y	J	TL712CPWR	AK
IC5002	VHiTL712CPW-1Y	J	TL712CPWR	AK
IC5003	VHiTHC4538T-1Y	J	TC74HC4538AFT	AL
IC5004	RH-iXA202WJN2Y	J	PIC12C509A-04	AP
IC5005	VHiM52347FP-1Y	J	M52347FP	AL
IC5006	VHiTHC4538T-1Y	J	TC74HC4538AFT	AL
IC5007	VHiTC7S00U/-1Y	J	TC7S00FU	AS
IC5008	VHiTC7S32U/-1Y	J	TC7S32FU	AE
IC5009	VHi7WH126FU-1Y	J	TC7WH126FU	AE
IC5010	VHiNJM2137V-1Y	J	NJM2137V	AF
IC5011	VHiTL712CPW-1Y	J	TL712CPWR	AK
IC5012	VHiTL712CPW-1Y	J	TL712CPWR	AK
IC5013	VHiLM4040C/-1Y	J	LM4040CIM3X4.1	AK
IC5014	VHiM62334FP-1Y	J	M62334FP	AH
IC5015	VHiLM2663M+-1Y	J	LM2663MX	AS
IC5016	VHiTC7S32U/-1Y	J	TC7S32FU	AE
IC5018	VHiSN2G74CT-1Y	J	SN74AHC2G74HDC	AE
IC5019	VHiSN2G32CT-1Y	J	SN74AHC2G32HDC	AE
IC6001	VHi7WH157FK-1Y	J	TC7WH157FK	AF
IC6002	VHi7WH157FK-1Y	J	TC7WH157FK	AF
IC6004	VHiAD9883A1-1Q	J	AD9883AKST-110	BD
IC6005	VHiSNCL257P-1Y	J	SN74CBTLV3257P	AM
IC6007	VHiMM3033D+-1Y	J	MM3033DURE	AD
IC6008	VHiPQ1L333M-1Y	J	PQ1L333M2SP	AD
IC8002	VHiPST600iM-1Y	J	IC-PST600IMT	AE
IC8004	VHiTC7W14U/-1Y	J	TC7W14FU	AG
IC8005	VHiTC7S32U/-1Y	J	TC7S32FU	AE
IC8202	RH-iXA854WJN1Q	J	M29W800DT70N6 (XV-Z200U, DT-300)	AN
IC8202	RH-iXA855WJN1Q	J	M29W800DT70N6 (XV-Z200E, XV-Z201E)	AP
IC8203	VHiBR24C32F-1Y	J	BR24C32F-E2	AH
IC8204	VHiTC7W66U/-1Y	J	TC7W66FU	AE

Note: When exchanging the following parts, it becomes unit replacement correspondence.

IC8001	—	–	PW365-10U	—

TRANSISTORS

Q1701	VSDTC114EE/-1Y	J	DTC114EE	AB
Q2004	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q2005	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q3101	VS2SC2735//-1Y	J	2SC2735	AB
Q3102	VS2SC2735//-1Y	J	2SC2735	AB
Q3103	VS2SC2735//-1Y	J	2SC2735	AB
Q3104	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3105	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q3106	VS2SA1530AR-1Y	J	2SA1530AR	AB

Ref. No.	Part No.	★	Description	Code

DUNTKC235DE01(XV-Z200U, DT-300)
DUNTKC235DE02(XV-Z200E, XV-Z201E)
MAIN UNIT (Continued)

Q3107	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q3108	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q3109	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3111	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3112	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3113	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3114	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3502	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q3505	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3507	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q3516	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q3517	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q5001	VSDTC114EE/-1Y	J	DTC114EE	AB
Q5002	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q5003	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q8002	VSRN4904///-1Y	J	RN4904	AB
Q8003	VSHN1K03FU+-1Y	J	HN1K03FU	AD
Q8004	VSRN4904///-1Y	J	RN4904	AB
Q8005	VSRN4904///-1Y	J	RN4904	AB
Q8201	VSHN1B04FU/-1Y	J	HN1B04FU	AC

DIODES

D1701	VHDHSU119//-1Y	J	Diode	AB
D1702	VHDHSU119//-1Y	J	Diode	AB
D1703	VHDHSU119//-1Y	J	Diode	AB
D1704	VHDHSU119//-1Y	J	Diode	AB
D1705	VHDHSU119//-1Y	J	Diode	AB
D1706	VHDHSU119//-1Y	J	Diode	AB
D1707	VHDHSU119//-1Y	J	Diode	AB
D1708	VHDHSU119//-1Y	J	Diode	AB
D1709	VHDHSU119//-1Y	J	Diode	AB
D1710	VHDDAN202K/-1Y	J	Diode	AB
D1711	VHDDAN202K/-1Y	J	Diode	AB
D1712	VHDHSU119//-1Y	J	Diode	AB
D1713	VHDHSU119//-1Y	J	Diode	AB
D1714	VHDHSU119//-1Y	J	Diode	AB
D1715	VHDHSU119//-1Y	J	Diode	AB
D1716	VHDHSU119//-1Y	J	Diode	AB
D1717	VHDHSU119//-1Y	J	Diode	AB
D2002	RH-EX1247CEZZY	J	Zener Diode, 5.6V	AB
D2005	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D2006	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D2007	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D2008	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D2009	RH-EX1244CEZZY	J	Zener Diode, 5.1V	AB
D3101	RH-EX1247CEZZY	J	Zener Diode, 5.6V	AB
D3105	VHDKDS226//-1Y	J	Diode	AB
D3106	VHDKDS226//-1Y	J	Diode	AB
D3107	VHDKDS226//-1Y	J	Diode	AB
D3108	VHDKDS226//-1Y	J	Diode	AB
D3109	VHDKDS226//-1Y	J	Diode	AB
D3110	VHDKDS226//-1Y	J	Diode	AB
D3114	RH-EX1247CEZZY	J	Zener Diode, 5.6V	AB
D3115	VHDKDS226//-1Y	J	Diode	AB
D3116	VHDKDS226//-1Y	J	Diode	AB
D3117	VHDKDS226//-1Y	J	Diode	AB
D3501	RH-EX1262CEZZY	J	Zener Diode, 9.1V	AB
D3502	RH-EX1262CEZZY	J	Zener Diode, 9.1V	AB
D3503	RH-EX1262CEZZY	J	Zener Diode, 9.1V	AB

PACKAGWD CIRCUITS

X2001	RCRSC0141TAZZY	J	Crystal, 14.7456MHz	AG
X3101	RCRSAA025WJZZ	J	Crystal	AF
X8001	RCRUAA027WJZZY	J	Crystal, 40.5MHz	AL
X8003	RCRUAA013WJZZY	J	Crystal, 133MHz	AP

FILTERS AND COILS

FL3509	RCiLF0306CEZZY	J	Filter Coil	AH
FL3510	RCiLFA034WJZZY	J	Filter Coil	AE
L3104	VPCKM4R7JR88NY	J	Peaking 4.7μH	AB
L3105	VPCKM680J6R2NY	J	Peaking 68μH	AB
L3106	VPCKM4R7JR88NY	J	Peaking 4.7μH	AB
L3107	VPCKM680J6R2NY	J	Peaking 68μH	AB
L3502	VPCKM220J2R1NY	J	Peaking 22μH	AB
L3505	VPCKM101J6R0NY	J	Peaking 100μH	AB
L3506	VPCKM101J6R0NY	J	Peaking 100μH	AB
L3507	VPCKM4R7JR88NY	J	Peaking 4.7μH	AB
L3508	VPCKM220J2R1NY	J	Peaking 22μH	AB
L5001	VPCKM100J1R3NY	J	Peaking 10μH	AB
L5002	VPCKM100J1R3NY	J	Peaking 10μH	AB

CAPACITORS

C1701	VCEAPF1EW336MY	J	33	25V	Electrolytic	AD
C1702	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1703	VCEAPF1CW107MY	J	100	16V	Electrolytic	AC
C1704	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1705	VCEAPF1CW107MY	J	100	16V	Electrolytic	AC
C1706	VCEAPF1EW336MY	J	33	25V	Electrolytic	AD
C1707	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1708	VCEAPF1CW107MY	J	100	16V	Electrolytic	AC
C1709	VCEAPF1CW476MY	J	47	16V	Electrolytic	AC
C1710	VCEAPF1EW336MY	J	33	25V	Electrolytic	AD
C1711	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1712	VCEAPF1CW107MY	J	100	16V	Electrolytic	AC
C1713	VCAAPD1CJ826MY	J	82	16V	Electrolytic	AF
C1714	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1715	VCEAPX1CW227MY	J	220	16V	Electrolytic	AD
C1716	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1718	VCEAPF1EW336MY	J	33	25V	Electrolytic	AD
C1719	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1720	VCEAPF1EW336MY	J	33	25V	Electrolytic	AD
C1721	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1722	VCEAPF1CW107MY	J	100	16V	Electrolytic	AC
C1723	VCAAPD0JJ127MY	J	120	6.3V	Electrolytic	AF
C1724	VCEAPF1EW336MY	J	33	25V	Electrolytic	AD
C1725	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1726	VCEAPF1EW336MY	J	33	25V	Electrolytic	AD
C1727	VCEAPF1EW336MY	J	33	25V	Electrolytic	AD
C1728	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1729	VCEAPF1EW336MY	J	33	25V	Electrolytic	AD
C1730	VCEAPF0JW226MY	J	22	6.3V	Electrolytic	AB
C1732	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1733	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1734	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1735	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1737	VCEAPF1CW107MY	J	100	16V	Electrolytic	AC
C1738	VCEAPF1CW107MY	J	100	16V	Electrolytic	AC
C1739	VCEAPF1EW336MY	J	33	25V	Electrolytic	AD
C1740	VCEAPF1EW336MY	J	33	25V	Electrolytic	AD
C1741	VCEAPF1EW336MY	J	33	25V	Electrolytic	AD
C1742	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1743	VCEAPF1EW336MY	J	33	25V	Electrolytic	AD
C2001	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C2003	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2005	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2006	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C2007	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C2008	VCCCCY1HH220JY	J	22p	50V	Ceramic	AA
C2009	VCCCCY1HH220JY	J	22p	50V	Ceramic	AA
C2011	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2012	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2013	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2014	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2015	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2016	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2017	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2018	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2019	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2020	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2023	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C3101	VCEAPF1HW105MY	J	1	50V	Electrolytic	AB
C3102	VCE9PF1HW105MY	J	1	50V	Elect. (N.P)	AC
C3103	VCE9PF1HW105MY	J	1	50V	Elect. (N.P)	AC
C3104	VCEAPF1HW105MY	J	1	50V	Electrolytic	AB
C3105	VCEAPF1HW105MY	J	1	50V	Electrolytic	AB
C3106	VCEAPF1HW105MY	J	1	50V	Electrolytic	AB

DUNTKC235DE01(XV-Z200U, DT-300)
DUNTKC235DE02(XV-Z200E, XV-Z201E)
MAIN UNIT (Continued)

Ref. No.	Part No.	★			Description	Code
C3107	VCEAPF1HW105MY	J	1	50V	Electrolytic	AB
C3108	VCEAPF1HW105MY	J	1	50V	Electrolytic	AB
C3109	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3110	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3111	VCEAPF1HW105MY	J	1	50V	Electrolytic	AB
C3112	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3113	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3114	VCEAPF1CW476MY	J	47	16V	Electrolytic	AC
C3115	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3117	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3118	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3120	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3121	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3122	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3123	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3124	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3126	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3127	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3131	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3132	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3133	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3134	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3135	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3136	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3137	VCKYCY1CF474ZY	J	0.47	16V	Ceramic	AB
C3138	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C3139	VCKYCY1CF474ZY	J	0.47	16V	Ceramic	AB
C3140	VCKYCY1CF474ZY	J	0.47	16V	Ceramic	AB
C3143	VCKYCY1HB222KY	J	2200p	50V	Ceramic	AA
C3144	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C3145	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3146	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3147	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3148	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3149	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3151	VCEAPF1HW474MY	J	0.47	50V	Electrolytic	AC
C3152	VCEAPF1HW225MY	J	2.2	50V	Electrolytic	AB
C3153	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3154	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3155	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3156	VCKYCY1HB222KY	J	2200p	50V	Ceramic	AA
C3157	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C3158	VCCCCY1HH7R0DY	J	7p	50V	Ceramic	AA
C3159	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3160	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C3161	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3162	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C3166	VCEAPF1CW107MY	J	100	16V	Electrolytic	AC
C3167	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3168	VCE9PF1CW106MY	J	10	16V	Elect. (N.P)	AC
C3173	VCE9PF1CW106MY	J	10	16V	Elect. (N.P)	AC
C3175	VCE9PF1CW106MY	J	10	16V	Elect. (N.P)	AC
C3176	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3177	VCAAPD0JJ127MY	J	120	6.3V	Electrolytic	AF
C3178	VCEAPF0JW226MY	J	22	6.3V	Electrolytic	AB
C3179	VCEAPF0JW226MY	J	22	6.3V	Electrolytic	AB
C3180	VCEAPF1EW475MY	J	4.7	25V	Electrolytic	AB
C3181	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3182	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3183	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3188	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3189	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3191	VCEAPF0JW226MY	J	22	6.3V	Electrolytic	AB
C3502	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C3503	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C3512	VCCCCY1HH100DY	J	10p	50V	Ceramic	AA
C3515	VCCCCY1HH120JY	J	12p	50V	Ceramic	AA
C3516	VCCCCY1HH270JY	J	27p	50V	Ceramic	AA
C3520	VCE9PF1HW105MY	J	1	50V	Elect. (N.P)	AC
C3523	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3530	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C3531	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3551	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3555	VCEAPF0JW476MY	J	47	6.3V	Electrolytic	AB
C3557	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3559	VCEAPF0JW476MY	J	47	6.3V	Electrolytic	AB
C3560	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3561	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3562	VCEAPF0JW476MY	J	47	6.3V	Electrolytic	AB
C3564	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3567	VCCCCY1HH681JY	J	680p	50V	Ceramic	AB
C3571	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3572	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3573	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3574	VCEAPF0JW476MY	J	47	6.3V	Electrolytic	AB
C3576	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3577	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3579	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3581	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C3582	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C5001	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C5002	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5003	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5004	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C5005	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5006	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5007	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5008	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C5009	VCCCCY1HH821JY	J	820p	50V	Ceramic	AB
C5010	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5011	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5012	VCEAPF1HW105MY	J	1	50V	Electrolytic	AB
C5014	VCKYCY1CB683KY	J	0.068	16V	Ceramic	AC
C5015	VCEAPF1EW475MY	J	4.7	25V	Electrolytic	AB
C5016	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C5017	VCFRED1HM152JY	J	1500p	50V	Electrolytic	AC
C5018	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C5019	VCCCCY1HH821JY	J	820p	50V	Ceramic	AB
C5020	VCEAPF1HW105MY	J	1	50V	Electrolytic	AB
C5021	VCE9PF1HW474MY	J	0.47	50V	Elect. (N.P)	AD
C5022	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5023	VCKYCY1HB222KY	J	2200p	50V	Ceramic	AA
C5024	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C5025	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5026	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5027	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5028	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5029	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5030	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5031	VCEAPF0JW226MY	J	22	6.3V	Electrolytic	AB
C5032	VCEAPF1CW476MY	J	47	16V	Electrolytic	AC
C5033	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C5034	VCAAPC0JJ476MY	J	47	6.3V	Electrolytic	AE
C5035	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5036	VCCCCY1HH221JY	J	220p	50V	Ceramic	AA
C5037	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5038	VCEAPF0JW226MY	J	22	6.3V	Electrolytic	AB
C5039	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5040	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5041	VCEAPF0JW226MY	J	22	6.3V	Electrolytic	AB
C5042	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5043	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5044	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5048	VCCCCY1HH100DY	J	10p	50V	Ceramic	AA
C5049	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5050	VCCCCY1HH680JY	J	68p	50V	Ceramic	AA
C5052	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C6003	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C6007	VCKYCY1EB473KY	J	0.047	25V	Ceramic	AA
C6008	VCKYCY1EB473KY	J	0.047	25V	Ceramic	AA
C6009	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C6010	VCKYCY1EB473KY	J	0.047	25V	Ceramic	AA
C6011	VCAAPF1AJ566MY	J	56	10V	Electrolytic	AE
C6012	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C6013	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C6014	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA

DUNTKC235DE01(XV-Z200U, DT-300)
DUNTKC235DE02(XV-Z200E, XV-Z201E)
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
C6015	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C6016	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C6017	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C6018	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C6019	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C6021	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C6022	VCKYCY1EB822KY	J	8200p	25V	Ceramic	AA
C6023	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C6024	VCKYCY1CB823KY	J	0.082	16V	Ceramic	AH
C6025	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C6026	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C6027	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C6028	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C6029	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C6031	VCEAPF0JW226MY	J	22	6.3V	Electrolytic	AB
C6032	VCEAPF0JW226MY	J	22	6.3V	Electrolytic	AB
C6033	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C6034	VCEAPF0JW226MY	J	22	6.3V	Electrolytic	AB
C6036	VCEAPF0JW226MY	J	22	6.3V	Electrolytic	AB
C8001	VCAAPC1CJ396MY	J	39	16V	Electrolytic	AG
C8003	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8004	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8005	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8006	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8007	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8008	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8009	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8010	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8011	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8012	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8013	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8014	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8015	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8016	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8017	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8018	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8019	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8020	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8021	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8022	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8023	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8024	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8025	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8027	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8029	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8030	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8032	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8034	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8035	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8036	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8037	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8038	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8039	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8040	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8041	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8046	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8047	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8048	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8051	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8052	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8055	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8056	VCAAPC0JJ476MY	J	47	6.3V	Electrolytic	AE
C8057	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8058	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8202	VCKYCY1EB223KY	J	0.022	25V	Ceramic	AA
C8203	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8204	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8205	VCCCCY1HH470JY	J	47p	50V	Ceramic	AA
C8206	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA

RESISTORS

Ref. No.	Part No.	★				Code
R1701	VRS-TX2HF1R0JY	J	1	1/2W	Metal Oxide	AB
R1702	VRS-TX2HF1R0JY	J	1	1/2W	Metal Oxide	AB
R1703	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R1704	VRS-TX2HF3R3JY	J	3.3	1/2W	Metal Oxide	AB
R1705	VRS-TX2HF3R3JY	J	3.3	1/2W	Metal Oxide	AB
R1706	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R1708	VRS-TX2HF1R5JY	J	1.5	1/2W	Metal Oxide	AB
R1709	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R1711	VRS-TX2HF1R5JY	J	1.5	1/2W	Metal Oxide	AB
R1712	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R1713	VRS-TX2HF1R0JY	J	1	1/2W	Metal Oxide	AB
R1714	VRS-TX2HF1R0JY	J	1	1/2W	Metal Oxide	AB
R1715	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R1716	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R1718	VRN-CY1JF153DY	J	15k	1/16W	Metal Film	AA
R1719	VRN-CY1JF432DY	J	4.3k	1/16W	Metal Film	AA
R1720	VRS-TX2HF2R2JY	J	2.2	1/2W	Metal Oxide	AB
R1721	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R1723	VRN-CY1JF153DY	J	15k	1/16W	Metal Film	AA
R1724	VRN-CY1JF432DY	J	4.3k	1/16W	Metal Film	AA
R1725	VRS-TX2HF1R0JY	J	1	1/2W	Metal Oxide	AB
R1726	VRS-TX2HF1R0JY	J	1	1/2W	Metal Oxide	AB
R1727	VRS-TX2HF150JY	J	15	1/2W	Metal Oxide	AB
R1728	VRS-TX2HF150JY	J	15	1/2W	Metal Oxide	AB
R1731	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R1732	VRS-TX2HF2R2JY	J	2.2	1/2W	Metal Oxide	AB
R1734	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R1736	VRN-CY1JF153DY	J	15k	1/16W	Metal Film	AA
R1737	VRN-CY1JF432DY	J	4.3k	1/16W	Metal Film	AA
R1742	VRS-CJ1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R1745	VRS-CJ1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R1746	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1747	VRS-CY1JF682JY	J	6.8k	1/16W	Metal Oxide	AA
R1748	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R1751	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R1763	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R1765	VRS-TX2HF2R2JY	J	2.2	1/2W	Metal Oxide	AB
R1766	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R1767	VRS-TV1JD000JY	J	0	1/10W	Metal Oxide	AA
R1768	VRS-TV1JD000JY	J	0	1/10W	Metal Oxide	AA
R1769	VRS-TV1JD000JY	J	0	1/10W	Metal Oxide	AA
R1770	VRS-TV1JD000JY	J	0	1/10W	Metal Oxide	AA
R1771	VRS-TV1JD000JY	J	0	1/10W	Metal Oxide	AA
R1772	VRS-TV1JD000JY	J	0	1/10W	Metal Oxide	AA
R1773	VRS-TV1JD000JY	J	0	1/10W	Metal Oxide	AA
R1774	VRS-TV1JD000JY	J	0	1/10W	Metal Oxide	AA
R1775	VRS-TV1JD000JY	J	0	1/10W	Metal Oxide	AA
R1776	VRS-TV1JD000JY	J	0	1/10W	Metal Oxide	AA
R1777	VRS-TV1JD000JY	J	0	1/10W	Metal Oxide	AA
R1778	VRS-TX2HF2R2JY	J	2.2	1/2W	Metal Oxide	AB
R1779	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R1780	VRN-CY1JF153DY	J	15k	1/16W	Metal Film	AA
R1781	VRN-CY1JF432DY	J	4.3k	1/16W	Metal Film	AA
R2001	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R2004	VRS-CY1JF183FY	J	18k	1/16W	Metal Oxide	AA
R2007	VRS-CH1JF102JY	J	1k	1/16W	Metal Oxide	AA
R2008	VRS-CJ1JF100JY	J	10	1/16W	Metal Oxide	AA
R2010	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2011	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R2012	VRS-CJ1JF100JY	J	10	1/16W	Metal Oxide	AA
R2015	VRS-CH1JF100JY	J	10	1/16W	Metal Oxide	AA
R2017	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R2018	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2019	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2021	VRS-CH1JF102JY	J	1k	1/16W	Metal Oxide	AA
R2022	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R2023	VRS-CH1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2025	VRS-CH1JF100JY	J	10	1/16W	Metal Oxide	AA
R2026	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R2028	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R2029	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2030	VRS-CJ1JF000JY	J	0	1/16W	Metal Oxide	AA
R2031	VRS-CY1JF105JY	J	1 M	1/16W	Metal Oxide	AA
R2032	VRS-CH1JF103JY	J	10k	1/16W	Metal Oxide	AA

DUNTKC235DE01(XV-Z200U, DT-300)
DUNTKC235DE02(XV-Z200E, XV-Z201E)
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R2034	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2036	VRS-CJ1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R2037	VRS-CJ1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R2038	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2042	VRS-CJ1JF100JY	J	10 1/16W Metal Oxide	AA
R2043	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R2044	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R2045	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2047	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2049	VRS-CJ1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R2050	VRS-CJ1JF101JY	J	100 1/16W Metal Oxide	AA
R2054	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2055	VRS-CY1JF822JY	J	8.2k 1/16W Metal Oxide	AA
R2056	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R2057	VRN-CY1JF273DY	J	27k 1/16W Metal Film	AB
R2058	VRS-CY1JF473FY	J	47k 1/16W Metal Oxide	AA
R2059	VRS-CY1JF473FY	J	47k 1/16W Metal Oxide	AA
R2060	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R3101	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R3102	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R3103	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R3104	VRS-TV1JD000JY	J	0 1/10W Metal Oxide	AA
R3113	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R3115	VRS-CY1JF471JY	J	470 1/16W Metal Oxide	AA
R3117	VRS-CY1JF473FY	J	47k 1/16W Metal Oxide	AA
R3119	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R3121	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R3122	VRS-CY1JF202JY	J	2k 1/16W Metal Oxide	AA
R3123	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R3124	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R3126	VRS-CY1JF470JY	J	47 1/16W Metal Oxide	AA
R3129	VRS-CY1JF223FY	J	22k 1/16W Metal Oxide	AA
R3131	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R3134	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R3136	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R3137	VRS-CY1JF470JY	J	47 1/16W Metal Oxide	AA
R3138	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R3139	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R3141	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R3142	VRS-CJ1JF103JY	J	10k 1/16W Metal Oxide	AA
R3145	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R3146	VRS-CJ1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R3148	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R3149	VRS-CJ1JF101JY	J	100 1/16W Metal Oxide	AA
R3153	VRS-CY1JF335JY	J	3.3 M 1/16W Metal Oxide	AA
R3154	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R3155	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R3156	VRS-CY1JF470JY	J	47 1/16W Metal Oxide	AA
R3157	VRS-CY1JF560JY	J	56 1/16W Metal Oxide	AA
R3158	VRS-CY1JF682JY	J	6.8k 1/16W Metal Oxide	AA
R3160	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R3161	VRS-CY1JF470JY	J	47 1/16W Metal Oxide	AA
R3162	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R3163	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R3164	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R3165	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R3166	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R3167	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R3168	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R3169	VRS-CY1JF681JY	J	680 1/16W Metal Oxide	AA
R3170	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R3171	VRS-CY1JF273JY	J	27k 1/16W Metal Oxide	AA
R3172	VRS-CY1JF392JY	J	3.9k 1/16W Metal Oxide	AA
R3173	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R3174	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R3176	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R3177	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R3179	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R3181	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R3183	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R3185	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R3186	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R3187	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R3189	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R3190	VRS-CJ1JF101JY	J	100 1/16W Metal Oxide	AA
R3194	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R3195	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R3196	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R3207	VRS-CY1JF391JY	J	390 1/16W Metal Oxide	AA
R3208	VRS-CY1JF471JY	J	470 1/16W Metal Oxide	AA
R3210	VRS-CY1JF391JY	J	390 1/16W Metal Oxide	AA
R3211	VRS-CY1JF471JY	J	470 1/16W Metal Oxide	AA
R3213	VRS-CY1JF391JY	J	390 1/16W Metal Oxide	AA
R3214	VRS-CY1JF471JY	J	470 1/16W Metal Oxide	AA
R3215	VRS-CY1JF221JY	J	220 1/16W Metal Oxide	AA
R3216	VRS-CY1JF471JY	J	470 1/16W Metal Oxide	AA
R3502	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R3503	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R3504	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R3505	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R3507	VRS-CY1JF391FY	J	390 1/16W Metal Oxide	AA
R3509	VRS-CY1JF222FY	J	2.2k 1/16W Metal Oxide	AA
R3517	VRS-CY1JF182JY	J	1.8k 1/16W Metal Oxide	AA
R3520	VRS-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA
R3522	VRS-CY1JF911JY	J	910 1/16W Metal Oxide	AB
R3525	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R3526	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R3532	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R3537	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R3556	VRS-TX2HF2R2JY	J	2.2 1/2W Metal Oxide	AB
R3560	VRS-CY1JF821FY	J	820 1/16W Metal Oxide	AA
R3562	VRS-CY1JF471FY	J	470 1/16W Metal Oxide	AA
R3563	VRS-CY1JF181FY	J	180 1/16W Metal Oxide	AA
R3564	VRS-CY1JF122JY	J	1.2k 1/16W Metal Oxide	AA
R3565	VRS-CY1JF471FY	J	470 1/16W Metal Oxide	AA
R3569	VRS-CY1JF682JY	J	6.8k 1/16W Metal Oxide	AA
R3571	VRS-CY1JF392JY	J	3.9k 1/16W Metal Oxide	AA
R3576	VRS-CY1JF391JY	J	390 1/16W Metal Oxide	AA
R3577	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R3578	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R3579	VRS-CY1JF681JY	J	680 1/16W Metal Oxide	AA
R3580	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R3583	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R3585	VRS-CJ1JF101JY	J	100 1/16W Metal Oxide	AA
R3587	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R3590	VRS-CY1JF331JY	J	330 1/16W Metal Oxide	AA
R3595	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5001	VRS-CY1JF271JY	J	270 1/16W Metal Oxide	AA
R5002	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R5003	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R5004	VRS-CY1JF392JY	J	3.9k 1/16W Metal Oxide	AA
R5005	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R5006	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R5007	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5008	VRS-CY1JF271JY	J	270 1/16W Metal Oxide	AA
R5009	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R5010	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R5011	VRS-CY1JF392JY	J	3.9k 1/16W Metal Oxide	AA
R5012	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R5013	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5014	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R5015	VRS-CY1JF123FY	J	12k 1/16W Metal Oxide	AA
R5016	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R5017	VRS-CY1JF822FY	J	8.2k 1/16W Metal Oxide	AA
R5018	VRS-CY1JF392JY	J	3.9k 1/16W Metal Oxide	AA
R5019	VRS-CY1JF122JY	J	1.2k 1/16W Metal Oxide	AA
R5020	VRS-CY1JF471JY	J	470 1/16W Metal Oxide	AA
R5022	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5025	VRS-CY1JF392FY	J	3.9k 1/16W Metal Oxide	AA
R5026	VRS-CY1JF182FY	J	1.8k 1/16W Metal Oxide	AA
R5028	VRS-CY1JF221JY	J	220 1/16W Metal Oxide	AA
R5029	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R5030	VRS-CY1JF683JY	J	68k 1/16W Metal Oxide	AA
R5032	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R5033	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R5034	VRS-CY1JF333JY	J	33k 1/16W Metal Oxide	AA

DUNTKC235DE01(XV-Z200U, DT-300)
DUNTKC235DE02(XV-Z200E, XV-Z201E)
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R5035	VRS-CY1JF821JY	J	820 1/16W Metal Oxide	AA
R5036	VRS-CY1JF331JY	J	330 1/16W Metal Oxide	AA
R5037	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R5038	VRS-CY1JF470JY	J	47 1/16W Metal Oxide	AA
R5039	VRS-CY1JF123JY	J	12k 1/16W Metal Oxide	AA
R5041	VRS-CY1JF151FY	J	150 1/16W Metal Oxide	AA
R5042	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R5043	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5044	VRS-CY1JF272FY	J	2.7k 1/16W Metal Oxide	AA
R5045	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R5046	VRS-CY1JF102FY	J	1k 1/16W Metal Oxide	AA
R5047	VRS-CY1JF122JY	J	1.2k 1/16W Metal Oxide	AA
R5048	VRS-CJ1JF101JY	J	100 1/16W Metal Oxide	AA
R5051	VRS-CY1JF392FY	J	3.9k 1/16W Metal Oxide	AA
R5052	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R5053	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R5054	VRS-CH1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R5055	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R5056	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R5057	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5059	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5060	VRS-CY1JF470JY	J	47 1/16W Metal Oxide	AA
R5065	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5066	VRS-CY1JF152JY	J	1.5k 1/16W Metal Oxide	AA
R5067	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R6008	VRS-TV1JD000JY	J	0 1/10W Metal Oxide	AA
R6011	VRS-CJ1JF101JY	J	100 1/16W Metal Oxide	AA
R6013	VRS-CJ1JF470JY	J	47 1/16W Metal Oxide	AA
R6015	VRS-CY1JF272JY	J	2.7k 1/16W Metal Oxide	AA
R6016	VRS-CH1JF101JY	J	100 1/16W Metal Oxide	AA
R6017	VRS-CH1JF101JY	J	100 1/16W Metal Oxide	AA
R6019	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R6020	VRS-CH1JF101JY	J	100 1/16W Metal Oxide	AA
R6021	VRS-CH1JF101JY	J	100 1/16W Metal Oxide	AA
R6022	VRS-CH1JF101JY	J	100 1/16W Metal Oxide	AA
R6023	VRS-CH1JF101JY	J	100 1/16W Metal Oxide	AA
R6024	VRS-CH1JF101JY	J	100 1/16W Metal Oxide	AA
R6025	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R6038	VRS-CJ1JF000JY	J	0 1/16W Metal Oxide	AA
R6039	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R6043	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R6044	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R6057	VRS-TW2ED2R2JY	J	2.2 1/4W Metal Oxide	AA
R6058	VRS-TW2ED2R2JY	J	2.2 1/4W Metal Oxide	AA
R6059	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R6062	VRS-TV1JD000JY	J	0 1/10W Metal Oxide	AA
R6063	VRS-TV1JD000JY	J	0 1/10W Metal Oxide	AA
R6064	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R8001	VRS-CH1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R8004	VRS-CY1JF182JY	J	1.8k 1/16W Metal Oxide	AA
R8005	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R8007	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R8010	VRS-CJ1JF000JY	J	0 1/16W Metal Oxide	AA
R8011	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R8012	VRS-CH1JF470JY	J	47 1/16W Metal Oxide	AA
R8014	VRS-CH1JF470JY	J	47 1/16W Metal Oxide	AA
R8015	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R8018	VRS-CJ1JF000JY	J	0 1/16W Metal Oxide	AA
R8019	VRS-CH1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R8020	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R8021	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R8023	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R8027	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R8030	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8031	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8032	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8033	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8034	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8035	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8036	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8037	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8038	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8039	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8041	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8042	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8043	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8044	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8045	VRS-CY1JF220JY	J	22 1/16W Metal Oxide	AA
R8048	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8049	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8050	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8051	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8055	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8056	VRS-CH1JF220JY	J	22 1/16W Metal Oxide	AA
R8057	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R8058	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R8059	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R8060	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R8062	VRS-CY1JF470JY	J	47 1/16W Metal Oxide	AA
R8064	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R8065	VRS-CY1JF470JY	J	47 1/16W Metal Oxide	AA
R8067	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R8084	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R8086	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R8088	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R8089	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R8091	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R8201	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R8202	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R8203	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R8204	VRS-CY1JF332FY	J	3.3k 1/16W Metal Oxide	AA
R8205	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R8206	VRS-CJ1JF101JY	J	100 1/16W Metal Oxide	AA
R8208	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA

SWITCH

S2002	QSW-K0099TAZZY	J	Switch	AC

MISCELLANEOUS PARTS

FB2001	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB2002	RBLN-0059CEZZY	J	Ferrite Bead	AB
FB2007	RBLN-0061TAZZY	J	Ferrite Bead	AD
FB2008	RBLN-0061TAZZY	J	Ferrite Bead	AD
FB2009	RBLN-0061TAZZY	J	Ferrite Bead	AD
FB2013	RBLN-0061TAZZY	J	Ferrite Bead	AD
FB2014	RBLN-0061TAZZY	J	Ferrite Bead	AD
FB2015	RBLN-0061TAZZY	J	Ferrite Bead	AD
FB2016	RBLN-0061TAZZY	J	Ferrite Bead	AD
FB2017	RBLN-0061TAZZY	J	Ferrite Bead	AD
FB2018	RBLN-0061TAZZY	J	Ferrite Bead	AD
FB2019	RBLN-0061TAZZY	J	Ferrite Bead	AD
FB2030	RBLN-0061TAZZY	J	Ferrite Bead	AD
FB2031	RBLN-0061TAZZY	J	Ferrite Bead	AD
FB3506	RBLN-0255TAZZY	J	Ferrite Bead	AA
FB3507	RBLN-0255TAZZY	J	Ferrite Bead	AA
FB6005	RBLN-1037CEZZY	J	Ferrite Bead	AB
FB8002	RBLN-0210TAZZY	J	Ferrite Bead	AB
FB8003	RBLN-0210TAZZY	J	Ferrite Bead	AB
P1701	QPLGN0582FJZZY	J	Plug, 32-pin(ED)	AG
P1702	QPLGN0582FJZZY	J	Plug, 32-pin(PG)	AG
P1703	QPLGN0463TAZZY	J	Plug, 4-pin(FA)	AC
P1704	QPLGN0364TAZZY	J	Plug, 3-pin(FB)	AC
P1705	QPLGN0176FJZZY	J	Plug, 4-pin(FD)	AD
P1706	QPLGN0175FJZZY	J	Plug, 3-pin(FC)	AC
P2001	QPLGN0174FJZZY	J	Plug, 2-pin(TH)	AC
P2002	QPLGN0054CEZZY	J	Plug, 4-pin(BA)	AD
P2003	QPLGN0059CEZZY	J	Plug, 9-pin(KY)	AE
P2004	QPLGN0364TAZZY	J	Plug, 3-pinRB)	AC
P2011	QPLGN1058REZZY	J	Plug, 10-pin(TD)	AD
P3501	QPLGN0963TAZZY	J	Plug, 9-pin(TC)	AD
P3503	QPLGN0363TAZZY	J	Plug, 3-pin(TF)	AC
P6001	QCNCW0031CEZZY	J	Plug, 120-pin	AM
SC8001	QSOCN8003WJZZY	J	Socket, 80-pin	AM
TP8201	QLUGHA006WJZZY	J	Lug, Test Point	AC
TP8203	QLUGHA002WJZZ	J	Lug, Test Point	AB
TP8204	QLUGHA006WJZZY	J	Lug, Test Point	AC

Ref. No.	Part No.	★	Description	Code

DUNTKC235DE01(XV-Z200U, DT-300)
DUNTKC235DE02(XV-Z200E, XV-Z201E)
MAIN UNIT (Continued)

TP8205	QLUGHA006WJZZY	J	Lug, Test Point	AC
	PSLDMA028WJFW	J	Shield Case(Top)	AG
	PSLDMA101WJFW	J	Shield Case(Bottom)	AG
	QEARBA004WJFW	J	Grounding Parts	AH

Ref. No.	Part No.	★	Description	Code

DUNTKC236DE01(XV-Z200U, DT-300)
DUNTKC236DE02(XV-Z200E, XV-Z201E)
FORMATTER UNIT

INTEGRATED CIRCUITS

IC9102	RH-iXA846WJN1Q	J	M29W800DB70N6 (XV-Z200E, XV-Z201E)	AP
IC9102	RH-iXA847WJN1Q	J	M29W800DB70N6 (XV-Z200U, DT-300)	AN
IC9201	VHiPQ018EZ5-1Y	J	PQ018EZ5MZP	AF
IC9202	VHiTCDCR83D-1Y	J	CDCR83DBQR	AR
IC9301	RH-iXA384WJZZQ	J	2503253-0002	BP
IC9401	VHiSH6742C+-1Q	J	SH6742CFA0PAG	BD
IC9402	VHiLVC1G07C-1Y	J	SN74LVC1G07	AE

Note: When exchanging the following parts, it becomes unit replacement correspondence.

IC9101	—	–	2503227-001	—
IC9203	—	–	K4R271669E-TCS	—

TRANSISTORS

Q9401	VSTPC8209++-1Y	J	TPC8209	AE
Q9402	VSTPC8209++-1Y	J	TPC8209	AE
Q9403	VSTPC8209++-1Y	J	TPC8209	AE

DIODES AND THERMISTOR

D9201	VHDMi1A3///2EY	J	Diode	AC
D9301	VHDSFPB76//2EY	J	Diode	AD
D9302	VHDSFPB76//2EY	J	Diode	AD
D9401	VHDBAV99RW+-1Y	J	Diode	AC
D9402	VHDSFPA73//2EY	J	Diode	AD
D9403	RH-EXA107WJZZY	J	Zener Diode	AF
D9404	VHDBAT54SWT-1Y	J	Diode	AC
D9405	VHDBAT54SWT-1Y	J	Diode	AC
D9406	VHDBAT54SWT-1Y	J	Diode	AC
D9407	VHDBAT54SWT-1Y	J	Diode	AC
D9408	VHDBAT54SWT-1Y	J	Diode	AC
TH9102	RH-HXA001WJZZ	J	Thermister	AD

FILTERS AND COILS

X9101	RCRUAA041WJZZY	J	Crystal	AN
L9301	RCiLP0325TAZZY	J	Peaking Coil	AD
L9302	RCiLP0325TAZZY	J	Peaking Coil	AD

CAPACITORS

C9101	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9102	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9103	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9104	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9105	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9106	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9107	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9109	VCCCCY1HH680JY	J	68p	50V	Ceramic	AA
C9110	VCAAPC0JJ336MY	J	33	6.3V	Electrolytic	AF
C9111	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9112	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9113	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9114	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9117	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9118	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9119	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C9120	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C9121	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9124	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9126	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9129	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9130	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9132	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C9133	VCCCCY1HH270JY	J	27p	50V	Ceramic	AA
C9134	VCCCCY1HH270JY	J	27p	50V	Ceramic	AA
C9137	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9140	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9141	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9144	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9148	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB

DUNTKC236DE01(XV-Z200U, DT-300)
DUNTKC236DE02(XV-Z200E, XV-Z201E)
FORMATTER UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
C9149	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C9150	VCAAPE0GJ157MY	J	150	4V	Electrolytic	AE
C9152	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9153	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9156	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9157	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9161	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9162	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9165	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9167	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9170	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9173	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9174	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9181	VCCCCY1HH270JY	J	27p	50V	Ceramic	AA
C9182	VCCCCY1HH270JY	J	27p	50V	Ceramic	AA
C9183	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9201	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9202	VCEASH0JN476MY	J	47	6.3V	Electrolytic	AC
C9203	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C9204	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9205	VCCCCY1HH680JY	J	68p	50V	Ceramic	AA
C9206	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9207	VCCCCY1HH680JY	J	68p	50V	Ceramic	AA
C9208	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9209	VCCCCY1HH680JY	J	68p	50V	Ceramic	AA
C9210	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9211	VCCCCY1HH680JY	J	68p	50V	Ceramic	AA
C9212	VCSAFB0GP107MY	J	100	4V	Tantalum	AF
C9213	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9214	VCSAFB0GP107MY	J	100	4V	Tantalum	AF
C9215	VCSAFB0GP107MY	J	100	4V	Tantalum	AF
C9216	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9217	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9218	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9219	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9220	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9221	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9222	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9223	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9224	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9225	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9226	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9227	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9228	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9229	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9230	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9231	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9232	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C9233	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9234	VCCCCY1HH270JY	J	27p	50V	Ceramic	AA
C9235	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9236	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9237	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9238	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9239	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9240	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9302	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C9303	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C9305	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C9306	VCKYCY1HF104ZY	J	0.1	50V	Ceramic	AA
C9307	VCKYCY1HF104ZY	J	0.1	50V	Ceramic	AA
C9308	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C9309	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C9310	VCKYCY1HF104ZY	J	0.1	50V	Ceramic	AA
C9311	VCKYCY1HF104ZY	J	0.1	50V	Ceramic	AA
C9314	VCEAPF1CW106MY	J	10	16V	Electrolytic	AB
C9315	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C9316	RC-KZ0046TAZZY	J	4.7	35V	Ceramic	AD
C9317	RC-KZ0046TAZZY	J	4.7	35V	Ceramic	AD
C9319	RC-KZA048WJZZY	J	10	25V	Ceramic	AD
C9320	RC-KZ0070TAZZY	J	4.7	16V	Ceramic	AD
C9321	RC-KZ0072TAZZY	J	1	25V	Ceramic	AC
C9322	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C9404	RC-KZ0072TAZZY	J	1	25V	Ceramic	AC
C9405	RC-KZ0072TAZZY	J	1	25V	Ceramic	AC
C9406	VCEASH1CN107MY	J	100	16V	Electrolytic	AC
C9407	VCKYCY1HB272KY	J	2700p	50V	Ceramic	AA
C9408	VCKYCY1HB271KY	J	270p	50V	Ceramic	AA
C9409	VCCCCY1HH121JY	J	120p	50V	Ceramic	AA
C9410	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C9411	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C9412	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C9413	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9414	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9415	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9416	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9417	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9418	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9419	VCCCCY1HH331JY	J	330p	50V	Ceramic	AA
C9420	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9421	RC-KZ0071TAZZY	J	2.2	6.3V	Ceramic	AD
C9422	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9423	VCEAPF1VW336MY	J	33	35V	Electrolytic	AB
C9424	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9425	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9426	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9431	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C9432	VCKYCY1AF105ZY	J	1	10V	Ceramic	AC
C9433	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9503	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C9504	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9505	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9506	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9507	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9508	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9517	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9519	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9520	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9523	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9529	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9536	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9537	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9538	RC-KZ0071TAZZY	J	2.2	6.3V	Ceramic	AD
C9539	RC-KZ0071TAZZY	J	2.2	6.3V	Ceramic	AD
C9540	RC-KZ0071TAZZY	J	2.2	6.3V	Ceramic	AD
C9541	RC-KZ0071TAZZY	J	2.2	6.3V	Ceramic	AD
C9542	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9543	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9544	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9545	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9546	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9547	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9548	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9549	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C9550	VCKYCY1AB105KY	J	1	10V	Ceramic	AB
C9551	VCKYCY1AB105KY	J	1	10V	Ceramic	AB

RESISTORS

R9101	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R9102	VRS-CF1JP102JY	J	1k	1/16W	Metal Oxide	AC
R9103	VRS-CF1JP102JY	J	1k	1/16W	Metal Oxide	AC
R9104	VRS-CY1JF220FY	J	22	1/16W	Metal Oxide	AA
R9105	VRS-CY1JF220FY	J	22	1/16W	Metal Oxide	AA
R9106	VRS-CY1JF220FY	J	22	1/16W	Metal Oxide	AA
R9107	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R9108	VRS-CY1JF220FY	J	22	1/16W	Metal Oxide	AA
R9109	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R9110	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R9112	VRS-CY1JF390FY	J	39	1/16W	Metal Oxide	AA
R9113	VRS-CF1JP102JY	J	1k	1/16W	Metal Oxide	AC
R9114	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R9115	VRS-CF1JP102JY	J	1k	1/16W	Metal Oxide	AC
R9117	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R9118	VRS-CF1JP102JY	J	1k	1/16W	Metal Oxide	AC
R9119	VRS-CJ1JF102JY	J	1k	1/16W	Metal Oxide	AA
R9120	VRS-CH1JF101JY	J	100	1/16W	Metal Oxide	AA

DUNTKC236DE01(XV-Z200U, DT-300)
DUNTKC236DE02(XV-Z200E, XV-Z201E)
FORMATTER UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R9121	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R9122	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R9123	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R9124	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R9125	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R9129	VRS-CY1JF330FY	J	33 1/16W Metal Oxide	AA
R9132	VRS-CJ1JF103JY	J	10k 1/16W Metal Oxide	AA
R9134	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R9135	VRS-CY1JF330FY	J	33 1/16W Metal Oxide	AA
R9138	VRS-CJ1JF132JY	J	1.3k 1/16W Metal Oxide	AA
R9139	VRS-CY1JF330FY	J	33 1/16W Metal Oxide	AA
R9140	VRS-CY1JF330FY	J	33 1/16W Metal Oxide	AA
R9141	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R9143	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R9144	VRS-CH1JF101JY	J	100 1/16W Metal Oxide	AA
R9145	VRS-CY1JF184JY	J	180k 1/16W Metal Oxide	AA
R9146	VRN-CY1JF472DY	J	4.7k 1/16W Metal Film	AA
R9148	VRS-CH1JF102JY	J	1k 1/16W Metal Oxide	AA
R9149	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R9201	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R9203	VRS-CY1JF560FY	J	56 1/16W Metal Oxide	AA
R9204	VRS-CY1JF111FY	J	110 1/16W Metal Oxide	AA
R9205	VRS-CY1JF111FY	J	110 1/16W Metal Oxide	AA
R9206	VRS-CY1JF560FY	J	56 1/16W Metal Oxide	AA
R9208	VRS-CJ1JF102JY	J	1k 1/16W Metal Oxide	AA
R9209	VRS-CY1JF111FY	J	110 1/16W Metal Oxide	AA
R9210	VRS-CY1JF330FY	J	33 1/16W Metal Oxide	AA
R9211	VRS-CY1JF121FY	J	120 1/16W Metal Oxide	AA
R9212	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R9213	VRS-CY1JF390FY	J	39 1/16W Metal Oxide	AA
R9214	VRS-CY1JF390FY	J	39 1/16W Metal Oxide	AA
R9215	VRS-CY1JF390FY	J	39 1/16W Metal Oxide	AA
R9216	VRK-CD1JJ390FY	J	39 1/16W Metal Compo.	AC
R9217	VRK-CD1JJ390FY	J	39 1/16W Metal Compo.	AC
R9218	VRK-CD1JJ390FY	J	39 1/16W Metal Compo.	AC
R9219	VRS-CY1JF390FY	J	39 1/16W Metal Oxide	AA
R9312	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R9315	VRS-CJ1JF102JY	J	1k 1/16W Metal Oxide	AA
R9316	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R9317	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R9401	RR-SZ0090CEZZY	J	Acid Metal Resistor	AA
R9402	RR-SZ0089CEZZY	J	Acid Metal Resistor	AA
R9403	VRS-CY1JF154JY	J	150k 1/16W Metal Oxide	AA
R9404	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R9405	VRS-TV1JD301JY	J	300 1/10W Metal Oxide	AA
R9406	VRS-CH1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R9410	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R9411	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R9412	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R9413	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R9414	VRS-CY1JF302JY	J	3.0k 1/16W Metal Oxide	AA
R9415	VRS-TQ2BD101JY	J	100 1/8W Metal Oxide	AA
R9416	VRS-CY1JF106JY	J	10M 1/16W Metal Oxide	AA
R9417	VRS-CY1JF106JY	J	10M 1/16W Metal Oxide	AA
R9418	VRS-TQ2BD101JY	J	100 1/8W Metal Oxide	AA
R9419	VRS-CY1JF106JY	J	10M 1/16W Metal Oxide	AA
R9420	VRS-TQ2BD101JY	J	100 1/8W Metal Oxide	AA
R9421	VRS-TW2ED1R0JY	J	1 1/4W Metal Oxide	AB
R9422	VRS-TW2ED1R0JY	J	1 1/4W Metal Oxide	AB
R9423	VRS-TW2ED1R0JY	J	1 1/4W Metal Oxide	AB
R9426	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R9501	VRS-CY1JF330FY	J	33 1/16W Metal Oxide	AA
R9502	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA

SWITCHES

S9101	QSW-S0203TAZZY	J	Switch	AD
S9102	QSW-S0203TAZZY	J	Switch	AD

MISCELLANEOUS PARTS

FB9005	RBLN-0061TAZZY	J	Ferrite Bead	AD
FB9006	RBLN-0061TAZZY	J	Ferrite Bead	AD
FB9007	RBLN-0209TAZZY	J	Ferrite Bead	AB
FB9008	RBLN-0209TAZZY	J	Ferrite Bead	AB
FB9009	RBLN-0209TAZZY	J	Ferrite Bead	AB
FB9011	RBLN-0209TAZZY	J	Ferrite Bead	AB
FB9101	RBLN-0209TAZZY	J	Ferrite Bead	AB
FB9102	RBLN-0209TAZZY	J	Ferrite Bead	AB
FB9103	RBLN-0253TAZZY	J	Ferrite Bead	AA
FB9104	RBLN-0253TAZZY	J	Ferrite Bead	AA
FB9201	RBLN-0253TAZZY	J	Ferrite Bead	AA
FB9301	RBLN-0253TAZZY	J	Ferrite Bead	AA
FB9401	RBLN-A009WJZZY	J	Ferrite Bead	AB
FB9403	RBLN-A007WJZZY	J	Ferrite Bead	AC
FB9405	RBLN-A007WJZZY	J	Ferrite Bead	AC
FB9406	RBLN-A007WJZZY	J	Ferrite Bead	AC
FB9502	RBLN-0250TAZZY	J	Ferrite Bead	AC
P9101	QPLGN0582FJZZY	J	Plug, 32-pin(PG)	AG
P9102	QPLGN0363TAZZY	J	Plug, 3-pin(DB)	AC
P9402	QCNCW0040CEZZY	J	Plug, 4-pin(DD)	AB
SC9001	QSOCN8003WJZZY	J	Socket, 80-pin(DA)	AM

RDENCA060WJZZ
POWER UNIT

Ref. No.	Part No.	★	Description	Code
INTEGRATED CIRCUITS				
⚠ IC7001	9HU59350207	J	UCC3818D	AT
⚠ IC7003	9HU59850007	J	L6574D	AT
IC7102	9HU51300311	J	SI8033S	AQ
IC7103	9HU59600007	J	HA17431UA	AS
IC7104	9HU51113011	J	PQ07VK02FZ	AR
TRANSISTORS				
Q7001	9HU49120107	J	2SC2712	AD
Q7002	9HU49100607	J	2SA1213	AF
Q7003	9HU49120107	J	2SC2712	AD
Q7004	9HU49120107	J	2SC2712	AD
Q7005	9HU49120107	J	2SC2712	AD
Q7006	9HU49100607	J	2SA1213	AF
Q7007	9HU49100107	J	2SA1162	AD
Q7008	9HU42400211	J	2SK3235	AS
Q7009	9HU42400111	J	2SK3233	AS
Q7010	9HU42400111	J	2SK3233	AS
Q7011	9HU49300207	J	DTA114	AE
Q7012	9HU49310007	J	DTC114	AE
Q7013	9HU40221104	J	2SC2655	AF
Q7014	9HU49120107	J	2SC2712	AD
Q7101	9HU49120107	J	2SC2712	AD
Q7102	9HU49310007	J	DTC114	AE
DIODES				
⚠ D7001	9HU33005011	J	Diode, D10XB60	AN
D7002	9HU39100007	J	Diode, 1SS181	AD
D7003	9HU39451507	J	Diode, M1FS4	AE
D7004	9HU31125111	J	Diode, SF10L60U	AL
D7005	9HU39100107	J	Diode, 1SS184	AD
D7006	9HU39100107	J	Diode, 1SS184	AD
D7007	9HU39100107	J	Diode, 1SS184	AD
D7010	9HU39101607	J	Diode, 1SS352	AE
D7011	9HU39100107	J	Diode, 1SS184	AD
D7012	9HU39100107	J	Diode, 1SS184	AD
D7013	9HU39100307	J	Diode, 1SS226	AD
D7014	9HU39150107	J	Diode, U1DL44A	AF
D7015	9HU39101607	J	Diode, 1SS352	AE
D7016	9HU39451507	J	Diode, M1FS4	AE
D7017	9HU39451507	J	Diode, M1FS4	AE
D7101	9HU39100107	J	Diode, 1SS184	AD
D7102	9HU31125311	J	Diode, SF10SC4	AK
D7103	9HU31121011	J	Diode, SF5LC20U	AK
D7104	9HU31300111	J	Diode, FMB-24M	AL
D7107	9HU39100007	J	Diode, 1SS181	AD
ZD7001	9HU32006801	J	Zener Diode, 18V	AD
ZD7002	9HU39325507	J	Zener Diode, 2.4V	AD
ZD7003	9HU39326707	J	Zener Diode, 18V	AD
ZD7004	9HU39330107	J	Zener Diode, 16V	AD
ZD7005	9HU39331207	J	Zener Diode, 6.2V	AD
ZD7101	9HU39331707	J	Zener Diode, 9.1V	AD
ZD7102	9HU39330607	J	Zener Diode, 24V	AD
⚠ TH7001	9HU16510104	J	M10010C	AH
TH7003	9HU16570611	J	PTH9M04BB222TS2F333	AN
PACKAGED CIRCUITS				
⚠ PC7001	9HU52305011	J	Photo Coupler, PC123	AG
⚠ PC7002	9HU52001611	J	Photo Coupler, PC123	AH
⚠ PC7003	9HU52305011	J	Photo Coupler, PC123	AG
⚠ PC7004	9HU52305011	J	Photo Coupler, PC123	AG
FILTERS AND COILS				
L7001	9HU60313711	J	Coil, FK-080E-2620	AU
L7002	9HU60310011	J	Coil, SK-10M5Y	AN
L7003	9HU60329911	J	Coil, HKS-106-090-1120	AY
L7011	9HU60536511	J	Peaking Coil, 4.7É H	AF
L7012	9HU60536511	J	Peaking Coil, 4.7É H	AF
L7101	9HU60306411	J	Coil, HK-05S040-1510	AN

Ref. No.	Part No.	★	Description	Code
TRANSFORMERS				
⚠ T7001	9HU60131811	J	Transformer, T23861A	AX
CAPACITORS				
⚠ C7001	9HU23605266	J	2200p AC250V Ceramic	AF
⚠ C7002	9HU23605266	J	2200p AC250V Ceramic	AF
⚠ C7003	9HU22910366	J	0.22 AC275V Film	AE
⚠ C7004	9HU22910266	J	1 AC275V Film	AK
C7005	9HU28220007	J	1000p 50V Ceramic	AE
C7006	9HU28220007	J	1000p 50V Ceramic	AE
C7007	9HU22900704	J	0.01 630V Electrolytic	AM
C7008	9HU28151007	J	2.2 10V Ceramic	AF
C7009	9HU22580211	J	42.2 450V Electrolytic	AQ
C7010	9HU28202107	J	680p 50V Ceramic	AF
C7011	9HU28220607	J	0.01 50V Ceramic	AF
C7012	9HU28267007	J	1 10V Ceramic	AF
C7013	9HU28125707	J	0.22 25V Ceramic	AF
C7014	9HU28202007	J	470p 50V Ceramic	AF
C7015	9HU28220607	J	0.01 50V Ceramic	AF
C7016	9HU28220907	J	0.1 25V Ceramic	AF
C7017	9HU21228105	J	33 35V Electrolytic	AE
C7018	9HU28320607	J	1000p 630V Ceramic	AG
C7019	9HU28220607	J	0.01 50V Ceramic	AF
C7020	9HU28320607	J	1000p 630V Ceramic	AG
C7021	9HU21517466	J	68 400V Electrolytic	AQ
C7022	9HU28220607	J	0.01 50V Ceramic	AF
C7023	9HU21143105	J	10 16V Electrolytic	AE
C7024	9HU28235007	J	0.22 10V Ceramic	AF
C7025	9HU28255007	J	0.47 6.3V Ceramic	AF
C7026	9HU28235007	J	0.22 10V Ceramic	AF
C7027	9HU28201807	J	330p 50V Ceramic	AF
C7028	9HU28220907	J	0.1 25V Ceramic	AF
C7029	9HU21226305	J	100 25V Electrolytic	AE
C7030	9HU28220907	J	0.1 25V Ceramic	AF
C7031	9HU28265007	J	0.1 25V Ceramic	AF
C7032	9HU28121207	J	0.1 50V Ceramic	AF
C7033	9HU28220007	J	1000p 50V Ceramic	AE
C7034	9HU28125207	J	0.33 50V Ceramic	AF
C7035	9HU28202007	J	470p 50V Ceramic	AF
C7037	9HU21470204	J	100 50V Electrolytic	AE
C7038	9HU28020007	J	0.1 50V Ceramic	AP
C7039	9HU28165407	J	2.2 25V Ceramic	AF
C7040	9HU28205407	J	1000p 25V Ceramic	AF
C7041	9HU21230705	J	22 50V Electrolytic	AE
C7042	9HU28321407	J	100p 1kV Ceramic	AH
C7043	9HU28321407	J	100p 1kV Ceramic	AH
C7044	9HU22763266	J	0.012 630V Electrolytic	AK
C7045	9HU21230905	J	47 50V Electrolytic	AE
C7046	9HU28320307	J	330p 1kV Ceramic	AH
C7047	9HU28320307	J	330p 1kV Ceramic	AH
C7048	9HU28145507	J	2.2 6.3V Ceramic	AF
C7050	9HU21517466	J	68 400V Electrolytic	AQ
⚠ C7054	9HU23604266	J	220p AC250V Ceramic	AF
⚠ C7055	9HU23604266	J	220p AC250V Ceramic	AF
C7056	9HU28220907	J	0.1 25V Ceramic	AF
C7057	9HU28025007	J	1 25V Ceramic	AF
C7059	9HU21517466	J	68 400V Electrolytic	AQ
C7101	9HU28220907	J	0.1 25V Ceramic	AF
C7102	9HU21466704	J	1500 25V Electrolytic	AF
C7103	9HU28270007	J	0.22 16V Ceramic	AF
C7105	9HU21462104	J	3300 10V Electrolytic	AF
C7107	9HU28130107	J	1 16V Ceramic	AF
C7108	9HU21462004	J	1000 10V Electrolytic	AF
C7110	9HU28265007	J	0.1 25V Ceramic	AF
C7111	9HU21230705	J	22 50V Electrolytic	AE
C7112	9HU28265007	J	0.1 25V Ceramic	AF
RESISTORS				
R7001	9HU18910607	J	56k 1/4W Metal Oxide	AE
R7002	9HU18910607	J	56k 1/4W Metal Oxide	AE
R7003	9HU18910607	J	56k 1/4W Metal Oxide	AE
R7004	9HU18030007	J	2.7k 1/10W Metal Oxide	AD
R7005	9HU18034207	J	33k 1/10W Metal Oxide	AE
R7006	9HU18000907	J	4.7k 1/10W Metal Oxide	AD
R7007	9HU18004807	J	30k 1/10W Metal Oxide	AD

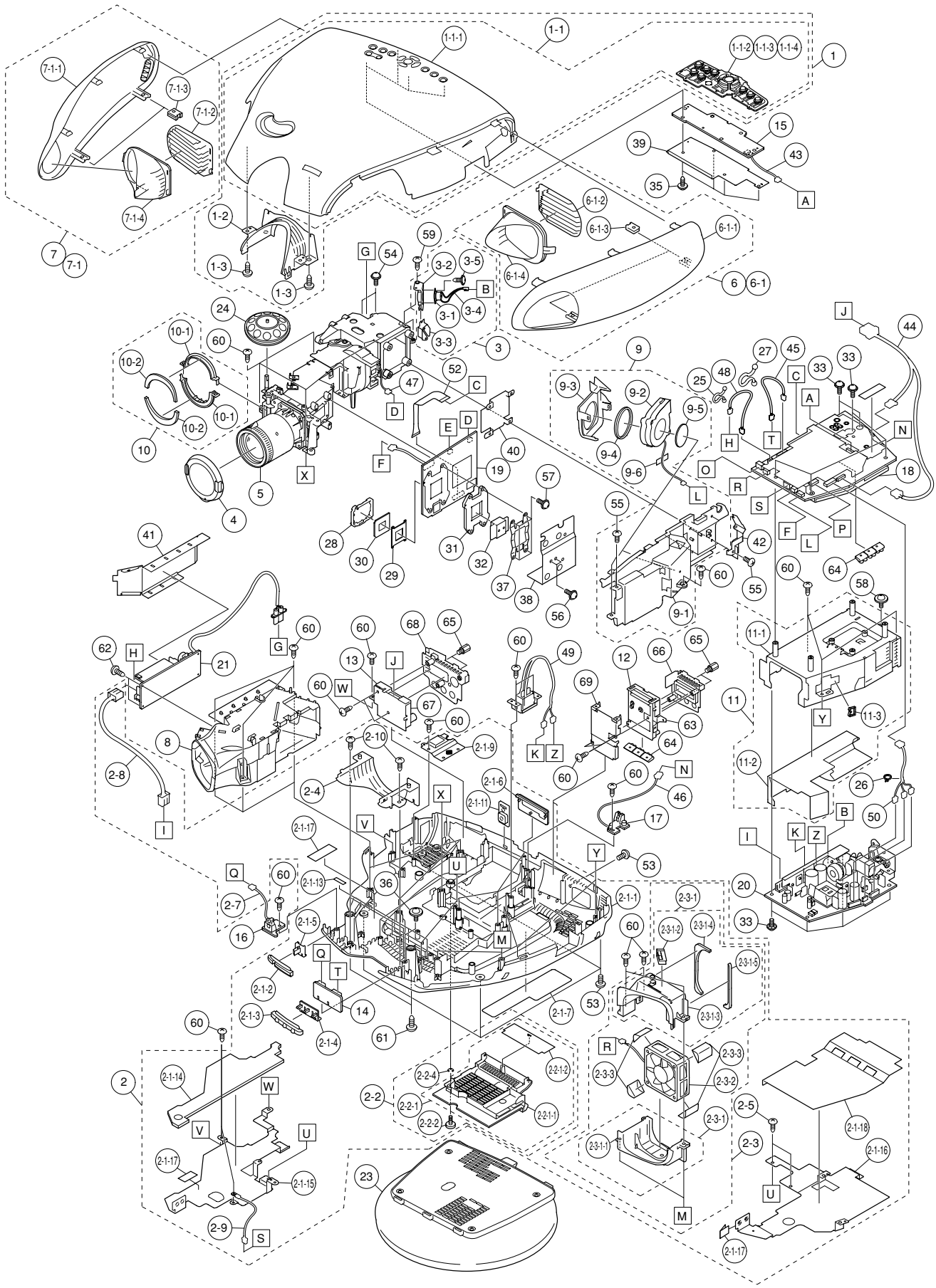
RDENCA060WJZZ
POWER UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R7008	9HU18036907	J	2k 1/10W Metal Oxide	AD
R7010	9HU18210507	J	220k 1/4W Metal Oxide	AD
R7011	9HU18135607	J	2k 1/8W Metal Oxide	AD
R7012	9HU18210507	J	220k 1/4W Metal Oxide	AD
R7013	9HU18210507	J	220k 1/4W Metal Oxide	AD
R7014	9HU18201307	J	33 1/4W Metal Oxide	AD
R7015	9HU18300707	J	18 1/2W Metal Oxide	AD
R7016	9HU18300707	J	18 1/2W Metal Oxide	AD
R7017	9HU18300107	J	10 1/2W Metal Oxide	AD
R7018	9HU18032707	J	15k 1/10W Metal Oxide	AD
R7019	9HU18106307	J	3.9k 1/8W Metal Oxide	AE
R7020	9HU18031507	J	2.2k 1/10W Metal Oxide	AD
R7021	9HU18107507	J	12 1/8W Metal Oxide	AE
R7022	9HU18300707	J	18 1/2W Metal Oxide	AD
R7023	9HU18300707	J	18 1/2W Metal Oxide	AD
R7024	9HU18001007	J	47k 1/10W Metal Oxide	AD
R7025	9HU18031907	J	18k 1/10W Metal Oxide	AD
R7026	9HU18000607	J	22k 1/10W Metal Oxide	AD
R7027	9HU18031907	J	18k 1/10W Metal Oxide	AD
R7028	9HU18031607	J	12k 1/10W Metal Oxide	AD
R7029	9HU18214007	J	4.7 1/4W Metal Oxide	AD
R7030	9HU18033807	J	2.4k 1/10W Metal Oxide	AD
R7031	9HU18135807	J	2.4k 1/8W Metal Oxide	AE
R7032	9HU18240907	J	330k 1/4W Metal Oxide	AD
R7033	9HU18240907	J	330k 1/4W Metal Oxide	AD
R7034	9HU18240907	J	330k 1/4W Metal Oxide	AD
R7035	9HU18002107	J	27k 1/10W Metal Oxide	AD
R7036	9HU18240907	J	330k 1/4W Metal Oxide	AD
R7037	9HU18240907	J	330k 1/4W Metal Oxide	AD
R7038	9HU18240907	J	330k 1/4W Metal Oxide	AD
R7039	9HU18033807	J	2.4k 1/10W Metal Oxide	AD
R7040	9HU18107307	J	10k 1/8W Metal Oxide	AE
R7041	9HU18003907	J	2.2k 1/10W Metal Oxide	AD
R7042	9HU18000207	J	10k 1/10W Metal Oxide	AD
R7043	9HU18001607	J	1k 1/10W Metal Oxide	AD
R7044	9HU18000907	J	4.7k 1/10W Metal Oxide	AD
R7045	9HU18109507	J	82k 1/8W Metal Oxide	AD
R7046	9HU18035907	J	91k 1/10W Metal Oxide	AD
R7047	9HU18000207	J	10k 1/10W Metal Oxide	AD
R7048	9HU18002407	J	33k 1/10W Metal Oxide	AE
R7049	9HU18206807	J	6.2k 1/4W Metal Oxide	AD
R7050	9HU18035907	J	91k 1/10W Metal Oxide	AD
R7051	9HU18001007	J	47k 1/10W Metal Oxide	AD
R7052	9HU18000207	J	10k 1/10W Metal Oxide	AD
R7053	9HU18036107	J	9.1k 1/10W Metal Oxide	AD
R7054	9HU18001007	J	47k 1/10W Metal Oxide	AD
R7055	9HU18000207	J	10k 1/10W Metal Oxide	AD
R7056	9HU18209307	J	68k 1/4W Metal Oxide	AD
R7058	9HU18308507	J	33k 1/3W Metal Oxide	AE
R7059	9HU18308507	J	33k 1/3W Metal Oxide	AE
R7060	9HU18200107	J	10 1/4W Metal Oxide	AD
R7061	9HU18200107	J	10 1/4W Metal Oxide	AD
R7062	9HU18030807	J	8.2k 1/10W Metal Oxide	AE
R7063	9HU18036407	J	36k 1/10W Metal Oxide	AD
R7064	9HU18202507	J	100 1/4W Metal Oxide	AD
R7065	9HU18202507	J	100 1/4W Metal Oxide	AD
R7066	9HU18001007	J	47k 1/10W Metal Oxide	AD
R7067	9HU18001007	J	47k 1/10W Metal Oxide	AD
R7068	9HU18300107	J	10 1/2W Metal Oxide	AD
R7069	9HU18032807	J	360 1/10W Metal Oxide	AD
R7070	9HU13045124	J	10k 2W Metal Oxide	AD
R7073	9HU18001007	J	47k 1/10W Metal Oxide	AD
R7074	9HU18001607	J	1k 1/10W Metal Oxide	AD
R7075	9HU18214007	J	4.7 1/4W Metal Oxide	AD
R7076	9HU18240907	J	330k 1/4W Metal Oxide	AD
R7077	9HU18240907	J	330k 1/4W Metal Oxide	AD
R7078	9HU18240907	J	330k 1/4W Metal Oxide	AD
R7079	9HU18032707	J	15k 1/10W Metal Oxide	AD
R7080	9HU18204907	J	1k 1/4W Metal Oxide	AD
R7082	9HU18923907	J	0.062 1W Metal Oxide	AE
R7083	9HU18923907	J	0.062 1W Metal Oxide	AE
R7084	9HU18923907	J	0.062 1W Metal Oxide	AE
R7085	9HU18923907	J	0.062 1W Metal Oxide	AE
R7086	9HU18000207	J	10k 1/10W Metal Oxide	AD
R7087	9HU18202707	J	120 1/4W Metal Oxide	AE
R7088	9HU18308507	J	33k 1/3W Metal Oxide	AE
R7089	9HU18308507	J	33k 1/3W Metal Oxide	AE
R7090	9HU18308507	J	33k 1/3W Metal Oxide	AE
R7091	9HU18308507	J	33k 1/3W Metal Oxide	AE
R7101	9HU18001607	J	1k 1/10W Metal Oxide	AD
R7102	9HU18001607	J	1k 1/10W Metal Oxide	AD
R7103	9HU18001607	J	1k 1/10W Metal Oxide	AD
R7104	9HU18204907	J	1k 1/4W Metal Oxide	AD
R7106	9HU18001607	J	1k 1/10W Metal Oxide	AD
R7107	9HU18003907	J	2.2k 1/10W Metal Oxide	AD
R7109	9HU18000207	J	10k 1/10W Metal Oxide	AD
R7110	9HU18036507	J	3k 1/10W Metal Oxide	AD
R7111	9HU18033907	J	1.6k 1/10W Metal Oxide	AE
R7112	9HU18030007	J	2.7k 1/10W Metal Oxide	AD
R7114	9HU18000207	J	10k 1/10W Metal Oxide	AD
R7115	9HU18032907	J	1k 1/10W Metal Oxide	AD
R7116	9HU18000907	J	4.7k 1/10W Metal Oxide	AD
R7117	9HU18001407	J	3.3k 1/10W Metal Oxide	AE
R7118	9HU18032907	J	1k 1/10W Metal Oxide	AD
R7119	9HU18036607	J	82 1/10W Metal Oxide	AD
R7120	9HU18002307	J	1.5k 1/10W Metal Oxide	AE
R7122	9HU18206507	J	4.7k 1/4W Metal Oxide	AD
R7123	9HU18000207	J	10k 1/10W Metal Oxide	AD
R7125	9HU18230107	J	10 1/4W Metal Oxide	AD
R7126	9HU18032807	J	360 1/10W Metal Oxide	AD
R7129	9HU18303707	J	330 1/2W Metal Oxide	AE

MISCELLANEOUS PARTS

⚠	F7001	9HU63220511	J Fuse, 250V/8A	AG
⚠	SA7001	9HU24011004	J ENE 471D-14A	AH
	CN7001	9HU62100911	J Plug, 2-pin	AM
	CN7002	9HU66304711	J Plug, 3-pin(EA)	AH
	CN7003	9HU66330411	J Plug, 3-pin(EB)	AH
	CN7004	9HU66304711	J Plug, 3-pin(EC)	AH
	CN7005	9HU66304711	J Plug, 3-pin(EA1)	AH
	CN7101	9HU66324811	J Plug, 10-pin(ED)	AG
	CN7102	9HU66324911	J Plug, 12-pin(EE)	AG
	CN7103	9HU66330311	J Plug, 6-pin(EF)	AK
	FK1	9HU63850011	J FP-213PB	AE
⚠	RY7001	9HU61030011	J Relay, SDT-S-112DMR2	AR
	FG1	9HU72100611	J AP-01	AE
	FG2	9HU72100611	J AP-01	AE

CABINET AND MECHANICAL PARTS



CABINET AND MECHANICAL PARTS

Ref. No.	Part No.	★	Description	Code
1	*Not Available*	–	Top Body Ass'y Unit (XV-Z200U)	—
1	*Not Available*	–	Top Body Ass'y Unit (XV-Z200E)	—
1	*Not Available*	–	Top Body Ass'y Unit (XV-Z201E/U)	—
1	*Not Available*	–	Top Body Ass'y Unit (DT-300)	—
1-1	DBDYTA045WJ01	J	Top Body Ass'y(XV-Z200U)	BM
1-1	DBDYTA046WJ01	J	Top Body Ass'y(XV-Z200E)	BM
1-1	DBDYTA047WJ01	J	Top Body Ass'y (XV-Z201E/U)	BM
1-1	DBDYTA048WJ01	J	Top Body Ass'y(DT-300)	BM
1-1-1	*Not Available*	–	Top Body	—
1-1-2	JBTN-A034WJZZ	J	Control Button, Base	AF
1-1-3	JBTN-A035WJSB	J	Control Button, Cursor	AP
1-1-4	JBTN-A036WJSA	J	Control Button, Top	AR
1-2	GCOVAA088WJKA	J	Lens Cover, Top	AF
1-3	XEBSD30P10000	J	Screw, x2	AA
2	*Not Available*	–	Bottom Body Ass'y Unit (XV-Z200U)	—
2	*Not Available*	–	Bottom Body Ass'y Unit (XV-Z200E)	—
2	*Not Available*	–	Bottom Body Ass'y Unit (XV-Z201E/E(K))	—
2	*Not Available*	–	Bottom Body Ass'y Unit (DT-300)	—
2	*Not Available*	–	Bottom Body Ass'y Unit (XV-Z201E(D)/E(H)/E(M)/ E(R)/E(X))	—
2-1	DBDYUA055WJ01	J	Bottom Body Ass'y (XV-Z200U)	BQ
2-1	DBDYUA056WJ01	J	Bottom Body Ass'y (XV-Z200E)	BQ
2-1	DBDYUA057WJ01	J	Bottom Body Ass'y (XV-Z201E/E(K))	BQ
2-1	DBDYUA058WJ01	J	Bottom Body Ass'y(DT-300)	BQ
2-1	DBDYUA069WJ01	J	Bottom Body Ass'y (XV-Z201E(D)/E(H)/E(M)/ E(R)/E(X))	BQ
2-1-1	*Not Available*	–	Bottom Body	—
2-1-2	GCOVAA080WJKB	J	Decoration Panel(L)	AH
2-1-3	GCOVAA081WJKB	J	Decoration Panel(R)	AH
2-1-4	GCOVAA086WJKA	J	LED Guide	AG
2-1-5	GCOVAA090WJKA	J	RC Cover(Front)	AG
2-1-6	GCOVAA091WJKA	J	RC Cover(Rear)	AK
2-1-7	HiNDPA682WJZZ	J	Lamp Caution Label	AF
2-1-8	HiNDPA717WJSA	J	AC Inlet Label	AF
2-1-9	HPNC-A009WJ00	J	Ballast PWB Punching	AE
2-1-10	LANGF2134CEFW	J	Kensington Lock	AE
2-1-11	LHLDZA090WJKZ	J	Kensington Lock Cover	AD
2-1-12	LX-NZ3144CEFW	J	Insert Nut, x6	AC
2-1-13	PCOVPA010WJZZ	J	Bottom Cover, x3	AB
2-1-14	PMLT-A054WJZZ	J	Spacer, x1	AH
2-1-15	PSLDMA051WJFW	J	Bottom Shield(R)	AM
2-1-16	PSLDMA330WJFW	J	Bottom Shield(L)	AL
2-1-17	PSPAT0003CEZZ	J	Tape, x3	AA
2-1-18	PZETKA011WJKZ	J	Insulating Sheet	AR
2-1-19	HiNDPA232WJZZ	J	Service Screw Label	AM
2-2	*Not Available*	–	Lamp Door Ass'y Unit	—
2-2-1	DDORUA013WJ01	J	Lamp Door Ass'y	AU
2-2-1-1	*Not Available*	–	Lamp Door	—
2-2-1-2	PCOVUA024WJKZ	J	Light Shielding Spacer	AD
2-2-2	LX-BZ1009CEFN	J	Screw, x1	AE
2-2-3	MSPRC0202CEFW	J	Spring, for Lamp Door	AB
2-2-4	XRESJ30-06000	J	E-ring, x1	AA
2-3	CDUC-A004WJ01	J	Fan Duct Ass'y Unit	AZ
2-3-1	DDUC-A004WJ01	J	Fan Duct Ass'y	AP
2-3-1-1	PDUC-A004WJKZ	J	Fan Duct(Bottom)	AG
2-3-1-2	LHLDW1173CEZZ	J	Wire Holder	AD
2-3-1-3	PDUC-A005WJKZ	J	Fan Duct(Top)	AG
2-3-1-4	PSPAZA052WJKZ	J	Spacer-A	AC
2-3-1-5	PSPAZA053WJKZ	J	Spacer-B	AC
2-3-2	NFANRA008WJ00	J	Cooling Fan	AU
2-3-3	PSPAZA064WJ00	J	Fan Spacer, x4	AD
2-4	GCOVAA087WJKA	J	Lens Cover(Bottom)	AF
2-5	LX-BZ3100CEFD	J	Screw, x1	AA
2-6	PSPAT0003CEZZ	J	Tape, x1	AA
2-7	QCNW-A669WJZZ	J	Connecting Cord(RA)	AE
2-8	QCNW-B851WJPZ	J	Connecting Cord(EC)	AH
2-9	RH-HZ0091CEZZ	J	Thermister	AL
2-10	XEBSD30P10000	J	Screw, x8	AA
3	*Not Available*	–	Bi-metal Ass'y	—
3-1	RBiM-A002WJZZ	J	Bi-metal	AK
3-2	LHLDZ0142CEKZ	J	Bi-metal Holder	AF
3-3	PSLDPA019WJFW	J	Bi-metal Shield	AE
3-4	QCNW-B853WJPZ	J	Connecting Cord(EB)	AF
3-5	XEBSD30P06000	J	Screw, x2	AA
4	CCAPHA004WJ01	J	Lens Cap	AK
5	Refer to optical mechanism parts.			
6	CCOVAA400WJ02	J	Side Cover(L) Ass'y Unit	AZ
6-1	DCOVAA400WJ02	J	Side Cover(L) Ass'y	AZ
6-1-1	*Not Available*	–	Side Cover(L)	—
6-1-2	HGRL-A007WJKA	J	Ventilation Punching Net	AQ
6-1-3	LX-NZ3172CEFJ	J	Speed Nut, x2	AD
6-1-4	PDUC-A042WJKA	J	Ventilation Duct(L)	AN
7	CCOVAA401WJ02	J	Side Cover(R) Ass'y Unit	AZ
7-1	DCOVAA401WJ02	J	Side Cover(R) Ass'y	AZ
7-1-1	*Not Available*	–	Side Cover(R)	—
7-1-2	HGRL-A008WJKA	J	Ventilation Punching Net	AQ
7-1-3	LX-NZ3172CEFJ	J	Speed Nut, x2	AD
7-1-4	PDUC-A043WJKA	J	Ventilation Duct(R)	AP
8	CDUC-A008WJ03	J	Exhaust Duct Ass'y	AY
8-1	PDUC-A008WJKZ	J	Exhaust Duct(Top)	AP
8-2	NFANRA007WJ00	J	Cooling Fan	AT
8-3	NFANRA025WJ00	J	Cooling Fan	AW
8-4	PDUC-A009WJKZ	J	Exhaust Duct(Bottom)	AP
8-5	PSPAZA063WJ00	J	Fan Spacer, x4	AD
8-6	PSPAZA065WJ00	J	Fan Spacer, x4	AD
8-7	XEPSD30P10000	J	Screw, x2	AA
9	CHLDZA048WJ05	J	Blow Fan Holder Ass'y	AS
9-1	LHLDZA048WJKZ	J	Blow Fan Holder	AM
9-2	NFANSA003WJZZ	J	Blow Fan	AX
9-3	PDUC-A010WJKA	J	Blow Fan Duct	
9-4	PSPAGA039WJKZ	J	Fan Spacer-A, x1	AB
9-5	PSPAGA040WJKZ	J	Fan Spacer-B, x1	AB
9-6	PSPAT0074CEZZ	J	Tape, x1	AC
10	CHLDZA070WJ01	J	Lens Shutter Ass'y, x2	AK
10-1	LHLDZA070WJKZ	J	Lens Shutter, x2	AF
10-2	PSPAZA057WJ00	J	Lens Cover Spacer, x2	AF
11	*Not Available*	–	Power PWB Shield Ass'y	—
11-1	PSLDMA296WJFW	J	Power PWB Shield	AU
11-2	PZETKA050WJKZ	J	Power PWB Shield, Cover	AP
11-3	LHLDW1220CEZZ	J	Wire Holder, x1	AD
12	DUNTKB439DE03	–	TERMINAL-1 Unit (XV-Z200U, DT-300)	—
12	DUNTKB439DE04	–	TERMINAL-1 Unit (XV-Z200E, XV-Z201E)	—
13	DUNTKB447DE03	–	TERMINAL-2 Unit (XV-Z200U, DT-300)	—
13	DUNTKB447DE04	–	TERMINAL-2 Unit (XV-Z200E, XV-Z201E)	—
14	DUNTKB448DE03	–	LED Unit (XV-Z200U, DT-300)	—
14	DUNTKB448DE04	–	LED Unit (XV-Z200E, XV-Z201E)	—

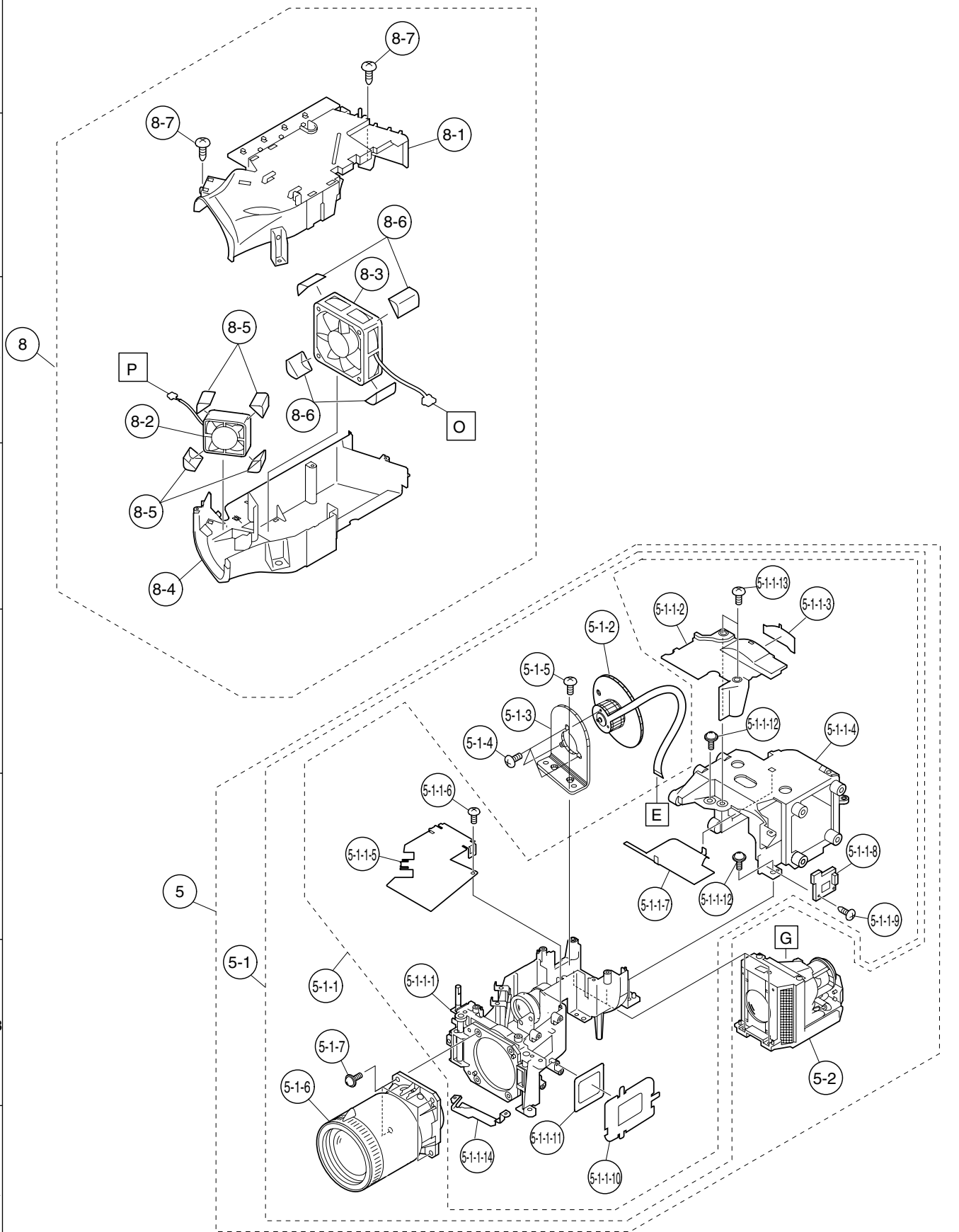
CABINET AND MECHANICAL PARTS

Ref. No.	Part No.	★	Description	Code
15	DUNTKB449DE03	–	KEY Unit (XV-Z200U, DT-300)	—
15	DUNTKB449DE04	–	KEY Unit (XV-Z200E, XV-Z201E)	—
16	DUNTKB450DE03	–	FRONT R/C Unit (XV-Z200U, DT-300)	—
16	DUNTKB450DE04	–	FRONT R/C Unit (XV-Z200E, XV-Z201E)	—
17	DUNTKB451DE03	–	REAR R/C Unit (XV-Z200U, DT-300)	—
17	DUNTKB451DE04	–	REAR R/C Unit (XV-Z200E, XV-Z201E)	—
18	DUNTKC235DE01	J	MAIN Unit (XV-Z200U, DT-300)	
18	DUNTKC235DE02	J	MAIN Unit (XV-Z200E, XV-Z201E)	
19	DUNTKC236DE01	J	FORMATTER Unit (XV-Z200U, DT-300)	CL
19	DUNTKC236DE02	J	FORMATTER Unit (XV-Z200E, XV-Z201E)	CL
20	RDENCA060WJZZ		POWER Unit	BT
21	RDENCA061WJZZ	J	BALLAST Unit	BS
22	*Not Available*	–	Serial No. Label	—
23	GDAi-A017WJSB	J	Swivel Stand	BG
24	JKNBZ1082CEKB	J	Lens Shift Dial	AL
25	LHLDW1003GEZZ	J	Wire Holder, x1	AA
26	LHLDW1033CEKZ	J	Wire Holder, x1	AA
27	LHLDW1064CEZZ	J	Wire Holder, x1	AB
28	LHLDZA289WJKZ	J	Outer Frame	AF
29	QSOCZA064WJZZ	J	C-Spring	BF
30	RDMDPA011WJZZQ	J	DMD Unit	DH
31	CHLDZA228WJ01	J	Backer Plate	AT
32	CRDARA096WJ01	J	Stud	AQ
33	LX-BZ3100CEFD	J	Screw, x10	AA
34	LX-BZ3266CEFD	J	Screw, x1	AA
35	LX-EZA004WJFD	J	Screw, x4	AB
36	LX-HZ3106CEFD	J	Screw, x1	AB
37	MSPRPA033WJFW	J	Stud Spring	AE
38	PRDARA097WJFW	J	Heat Sink	AG
39	PSHEPA058WJZZ	J	Light Shielding Sheet	AF
40	PSLDHA012WJFW	J	Lamp Shield	AD
41	PZETKA007WJKZ	J	Ballast PWB Cover	AP
42	PZETKA070WJKZ	J	R/C Cover	AG
43	QCNW-A670WJZZ	J	Connecting Cord(KY)	AM
44	QCNW-A671WJZZ	J	Connecting Cord(TC)	AG
45	QCNW-A667WJZZ	J	Connecting Cord(TD)	AH
46	QCNW-A676WJZZ	J	Connecting Cord(RB)	AE
47	QCNW-A682WJZZ	J	Connecting Cord(DB)	AE
48	QCNW-B850WJQZ	J	Connecting Cord(BA)	AH
49	QCNW-B852WJPZ	J	Connecting Cord(EA)	AU
50	QCNW-B871WJQZ	J	Connecting Cord(ED)	AU
51	QCNW-B933WJQZ	J	Connecting Cord(PG)	AW
52	QPWBHB482WJZZ	J	Connecting Cord	AS
53	XBBSN30P08000	J	Screw, x1	AA
54	XBPSD26P06JS0	J	Screw, x5	AA
55	XBPSD30P06000	J	Screw, x2	AA
56	XBPSD30P08KS0	J	Screw, x4	AA
57	XBPSD30P12JS0	J	Screw, x2	AA
58	XBPSD40P06JS0	J	Screw, x1	AA
59	XEBSD26P08000	J	Screw, x1	AA
60	XEBSD30P10000	J	Screw, x30	AA
61	XEBSN30P10000	J	Screw, x5	AA
62	XEPSD30P08000	J	Screw, x2	AA
63	PSLDMA030WJFW	J	Terminal Shield(L)	AF
64	QEARBA004WJFW	J	Earth Spring, x2	AH
65	NSFTZ0135CEFW	J	Shaft Screw, x4	AD
66	HPNLHA005WJK2	J	Terminal Panel(L)	AP
67	PSLDMA049WJFW	J	Terminal Shield(R)	AF
68	HPNLHA002WJK5	J	Terminal Panel(R)	AP

OPTICAL MECHANISM PARTS

Ref. No.	Part No.	★	Description	Code
5	*Not Available*	–	Optical Mechanism Unit Ass'y (XV-Z200E/U)	—
5	*Not Available*	–	Optical Mechanism Unit Ass'y (XV-Z201E, DT-300)	—
5-1	CCHSKA012WJ01	J	Optical Engine Unit (XV-Z200E/U)	DB
5-1	CCHSKA013WJ01	J	Optical Engine Unit (XV-Z201E, DT-300)	DB
5-1-1	*Not Available*	–	Optical Engine Ass'y	—
5-1-1-1	LCHSKA013WJZZ	J	Optical Engine	DA
5-1-1-2	95U11B1018812	J	Color Wheel Cover	AK
5-1-1-3	95U49B1019446	J	Color Wheel Insulation Plate	AG
5-1-1-4	95U12B1018810	J	Lamp Case	AZ
5-1-1-5	95U11B1019897	J	Shield Plate(Top)	
5-1-1-6	XBBSF20P04000	J	Screw(M2-3.5), x2	
5-1-1-7	95U72B1018837	J	Shield Plate(Bottom)	AG
5-1-1-8	95U110A1018253	J	Sensor PWB	AU
5-1-1-9	95U53K108340	J	Screw, for Sensor PWB	AD
5-1-1-10	95U27B1071589	J	DMD Mask	
5-1-1-11	95U60B1018653	J	DMD Packing	AK
5-1-1-12	XBPSD30P06J00	J	Screw(M2-3.5), x2	AA
5-1-1-13	XBBSF26P05000	J	Screw(M2-3.5), x2	AA
5-1-1-14	95U27B1037441	J	Light Shielding Sheet	
5-1-2	CMiR-A048WJ01	J	Color Wheel	BY
5-1-3	LANGKA207WJFW	J	Color Wheel Attaching Plate	AH
5-1-4	95U110M200353M	J	Screw(M2-3.5), x2	AD
5-1-5	XBBSF26P06000	J	Screw(M2.6-6), x3	AA
5-1-6	PLNS-A041WJZZ	J	Projection Lens (XV-Z200E/U)	CF
5-1-6	PLNS-A042WJZZ	J	Projection Lens (XV-Z201E, DT-300)	CG
5-1-7	LX-BZ3100CEFD	J	Screw(M2-3.5), x2	AA
⚠ 5-2	BQC-XVZ200++1	J	Lamp Unit	CN

OPTICS MECHANISM PARTS



1	2	3	4	5	6

SUPPLIED ACCESSORIES

Ref. No.	Part No.	★	Description	Code
⚠	QACCBA012WJPZ	J	AC Cord(for U.K., Hong Kong and Singapore)	AX
⚠	QACCDA007WJPZ	J	AC Cord (U.S.A. and Canada)	AR
⚠	QACCLA018WJPZ	J	AC Cord (Australia and New Zealand)	AZ
⚠	QACCV4002CEZZ	J	AC Cord (for Europe except U.K.)	AZ
	QCNWGA001WJZZ	J	Video Cable (XV-Z200E/XV-Z201E)	AN
	QSOCZ0361CEZZ	J	21pin RCA Conversion Adaptor(XV-Z200E/XV-Z201E)	AQ
	RCORFA013WJZZ	J	Core, for AC Cord (U.S.A. and Canada)	AK
	RRMCGA218WJSA	J	Infrared R/C Unit	AZ
	TCADEA087WJZZ	J	Questionnaire Card	AE
	TCADH1018CEZZ	J	Operation Manual, for 21pin RCA Conversion Adaptor	AE
	TiNS-B005WJZZ	J	Operation Manual (XV-Z200U)	AU
	TiNS-B006WJZZ	J	Operation Manual(DT-300)	AU
	TiNS-B007WJZZ	J	Operation Manual(XV-Z200E) (for European 7 Languages)	BD
	TiNS-B008WJZZ	J	Operation Manual(XV-Z200E) (for Chinese, Korean and Arabic)	AY
	TiNS-B009WJZZ	J	Operation Manual(XV-Z201E) (for European 7 Languages)	BD
	TiNS-B010WJZZ	J	Operation Manual(XV-Z201E) (for Chinese, Korean and Arabic)	AY
	GCOVAA116WJKB	J	Terminal Cover (XV-Z200U/E, XV-Z201E)	AP
	XBBSN40P10000	J	Screw for Terminal Cover, x2	AB

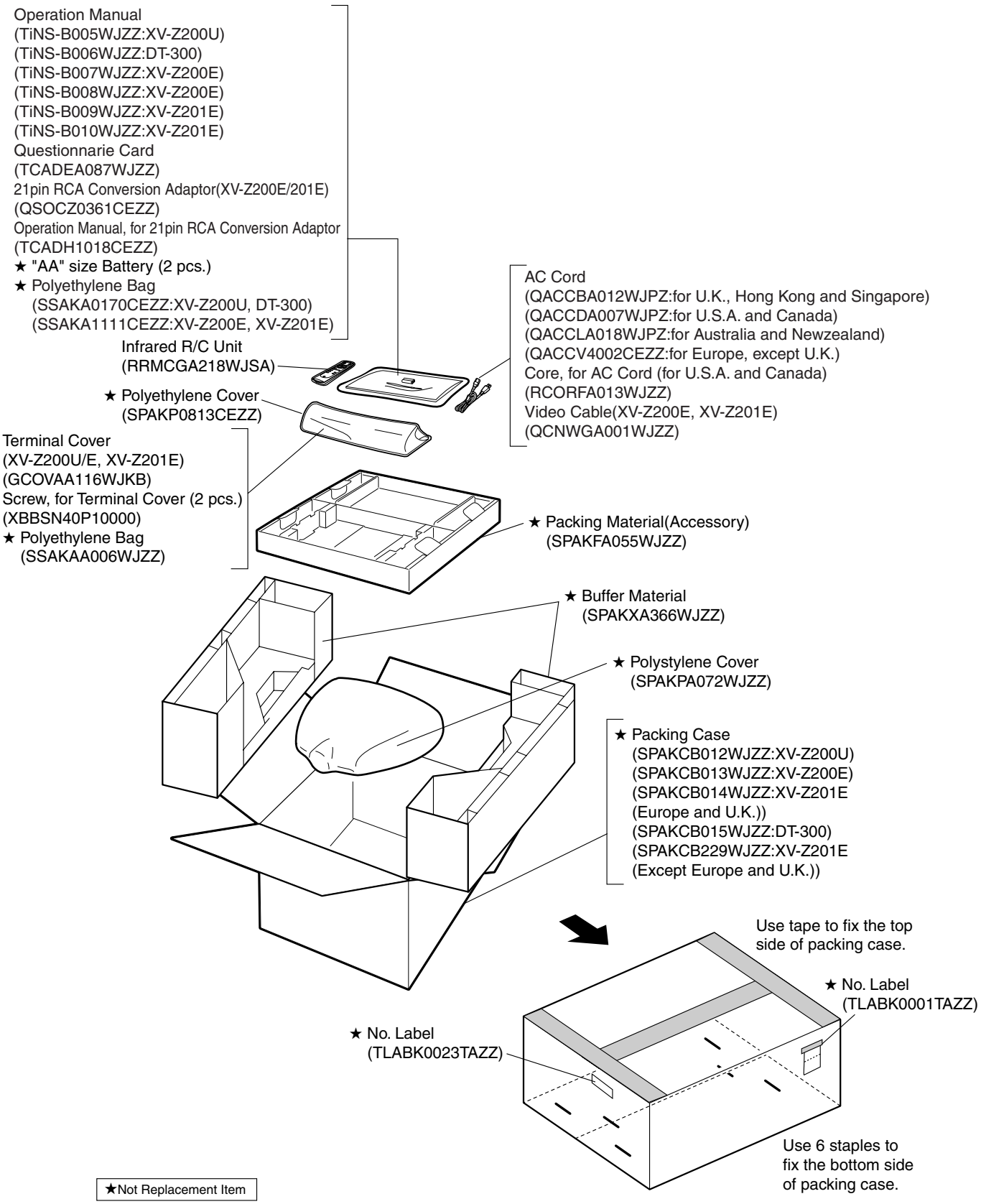
PACKING PARTS
(NOT REPLACEMENT ITEM)

Ref. No.	Part No.	★	Description	Code
	SPAKCB012WJZZ	–	Packing Case(XV-Z200U)	—
	SPAKCB013WJZZ	–	Packing Case(XV-Z200E)	—
	SPAKCB014WJZZ	–	Packing Case(XV-Z201E) (for Europe and U.K.)	—
	SPAKCB015WJZZ	–	Packing Case(DT-300)	—
	SPAKCB229WJZZ	–	Packing Case(XV-Z201E) (except Europe and U.K.)	—
	SPAKFA055WJZZ	–	Packing Material(Accessory)	—
	SPAKP0813CEZZ	–	Polystyrene Cover (Terminal Cover)	—
	SPAKPA072WJZZ	–	Polystyrene Cover	—
	SPAKXA366WJZZ	–	Buffer Material	—
	SSAKA0170CEZZ	–	Polyethylene Bag (XV-Z200U, DT-300)	—
	SSAKA1111CEZZ	–	Polyethylene Bag (XV-Z200E, XV-Z201E)	—
	SSAKAA006WJZZ	–	Polyethylene Bag (Terminal Cover)	—
	TLABK0001TAZZ	–	No. Label	—
	TLABK0023TAZZ	–	No. Label	—

SERVICE JIG
(Use for servicing)

Ref. No.	Part No.	★	Description	Code
	QCNW-C160WJQZ	J	Extension Cable 30-pin Main-power	AS

PACKING OF THE SET / VERPACKEN DES GERÄTS



★Not Replacement Item

SHARP

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MY. KG

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